JVC

ENGLISH

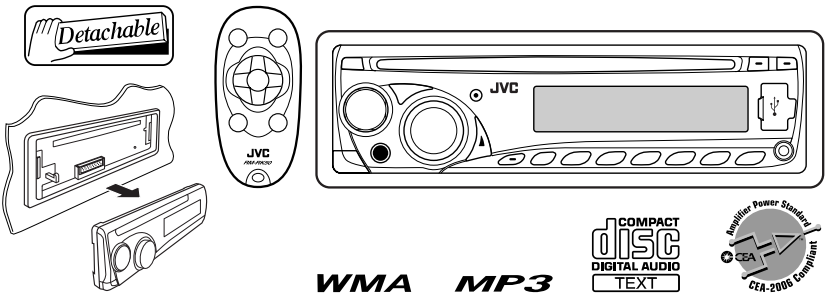
ESPAÑOL

FRANÇAIS

CD RECEIVER KD-G440

RECEPTOR CON CD KD-G440

RÉCEPTEUR CD KD-G440



WMA MP3

For canceling the display demonstration, see page 6.
Para cancelar la demostración en pantalla, consulte la página 6.
Pour annuler la démonstration des affichages, référez-vous à la page 6.

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No.

Serial No.

INSTRUCTIONS

MANUAL DE INSTRUCCIONES

MANUEL D'INSTRUCTIONS

GET0526-001A
[J]

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Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Caution:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及びまたは不可視のクラス1M レーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

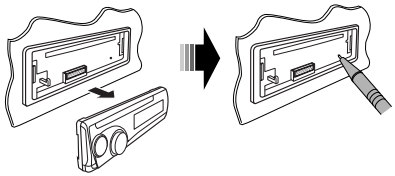
For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions, press M MODE again.

- Waiting for about 5 seconds without pressing any of these buttons will automatically cancels the functions mode.

This unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

CONTENTS

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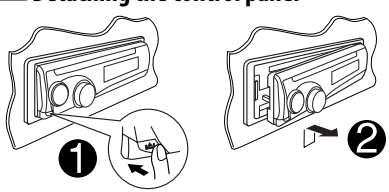
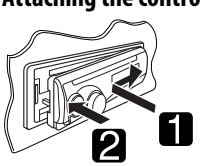
Detaching the control panel



Attaching the control panel



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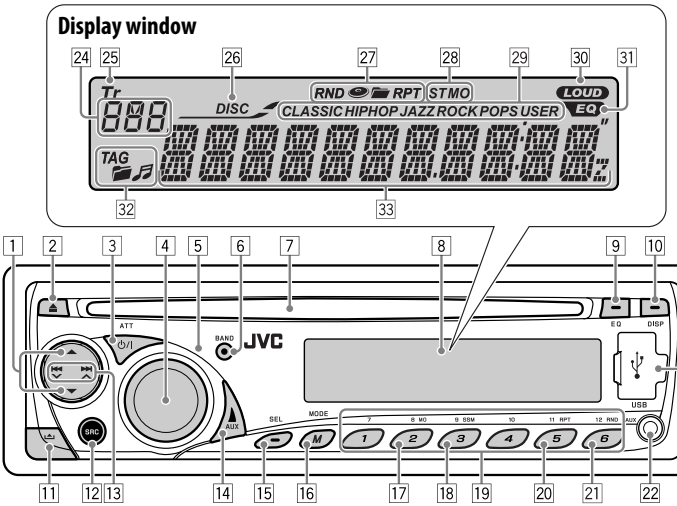
Control panel

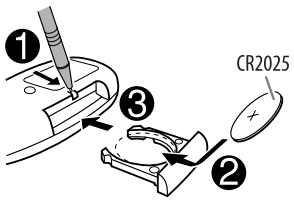
Parts identification



1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. EQ (equalizer) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮/⌄/⏭/⌃ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. MO (monaural) button
18. SSM (Strong-station Sequential Memory) button
19. Number buttons
20. RPT (repeat) button
21. RND (random) button
22. AUX (auxiliary) input jack
23. USB (Universal Serial Bus) input jack
24. Source display / Track number / Folder number / Time countdown indicator
25. Tr (track) indicator
26. DISC indicator
27. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
28. Tuner reception indicators—ST (stereo), MO (monaural)
29. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
30. LOUD (loudness) indicator
31. EQ (equalizer) indicator
32. Disc information indicators— TAG (Tag information), (folder), (track/file)
33. Main display

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)



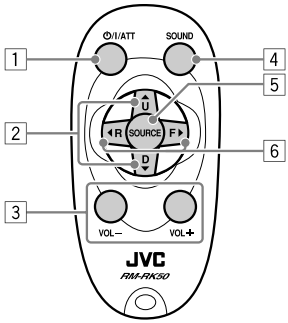
For USA-California Only:
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material—special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

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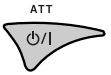
Getting started

Basic operations

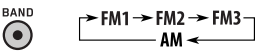
1 Turn on the power.



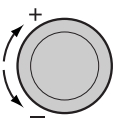
2

* *You cannot select these sources if they are not ready or not connected.*

3 For FM/AM tuner



4 Adjust the volume.

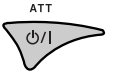
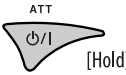


Volume level appears.

5 Adjust the sound as you want. (See pages 11 and 12.)

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

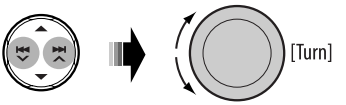
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 12 – 14.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute.

3 Finish the procedure.

To check the current clock time while the power is turned off

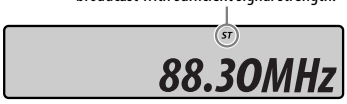
Clock time is shown on the display for about 5 seconds. See also page 13.

Radio operations

1 SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

2 BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



3 **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step 3 above...

1 [Hold]

2 **Select a desired station frequency.**

When an FM stereo broadcast is hard to receive

MODE M → 8 MO 2

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE M

3 9 SSM 3 [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Continued on the next page

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2 → 92.50MHz

3 10 4 [Hold] → P4

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 **Select the preset station (1 – 6) you want.**

7 1 | 8 MO 2 | 9 SSM 3 | 10 4 | 11 RPT 5 | 12 RND 6

or

To check the other information while listening to an FM or AM station

DISP

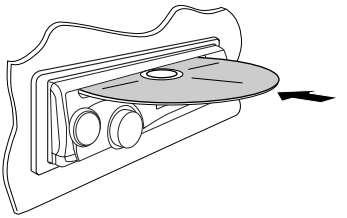
Frequency → **Clock** → **Station name*** → (back to the beginning)

* *If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 15.*

Disc / USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

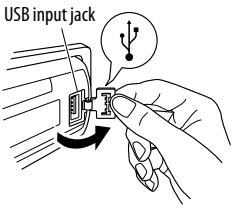
To stop play and eject the disc

- Press SRC to listen to another playback source.

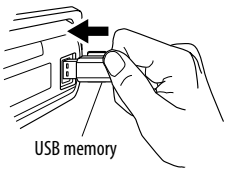
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



❷



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 17.

To fast-forward or reverse the track

To go to the next or previous track

To go to the next or previous folder (for MP3/WMA)

To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1 MODE

2 Track 1 to 9 → Track 10 → 20 → 30

Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3 Track 31 → 32

Prohibiting disc ejection

You can lock a disc in the loading slot.

SRC + [Hold]

EJECT LOCK

To cancel the prohibition, repeat the same procedure.

Changing the display information

DISP

While playing an audio CD or CD Text

A → Disc title/performer*1 **→ Track title***1 [♪] **→ B →** (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 13)**

A → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♪] **→ B →** (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → Folder name [📁] **→ File name** [♪] **→ B →** (back to the beginning)

A : Clock with the current track number
B : The elapsed playing time with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE

2 Select your desired playback mode.

■ **Repeat play** 11 RPT

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [*RPT*]
RPT OFF	: Cancels.

■ **Random play** 12 RND

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND*]
ALL RND	: All tracks of the current disc or USB device. [*RND*]
RND OFF	: Cancels.

* *Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

→ USER → ROCK → CLASSIC
JAZZ ← HIP HOP ← POPS ←

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

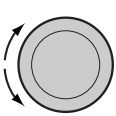
You can adjust the sound characteristics to your preference.

1 SEL

→ BASS → MIDDLE → TREBLE → FADER → BALANCE
VOLUME ← VOL ADJ ← SUB.W* ← LOUD ←

* *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

2



Continued on the next page

Indication, [Range]

BASS *1, [–06 to +06]
Adjust the bass.

MIDDLE *1 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *1, [–06 to +06]
Adjust the treble.

FADER *2, [R06 to F06]
Adjust the front and rear speaker balance.

BALANCE *3, [L06 to R06]
Adjust the left and right speaker balance.

LOUD *4 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W *5, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *This adjustment will not affect the subwoofer output.*

*4 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*5 *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

*6 *Depending on the amplifier gain control setting. (See page 14 for details.)*

General settings — PSM

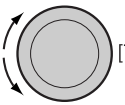
You can change PSM (Preferred Setting Mode) items listed in the table on pages 13 and 14.

1

[Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.



[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON** • **DEMO OFF**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. : Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON** • **CLOCK OFF**	: The clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK HOUR Hour adjustment	**1 – 12**	[Initial: 1 (1:00)], [6]
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (1:00)], [6]
DIMMER Dimmer	• **ON** • **OFF**	: Dims the display and button illumination. : Cancels.
SCROLL *2 Scroll	• **ONCE** • **AUTO** • **OFF**	: Scrolls the displayed information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE Line output mode	• **REAR** • **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier). : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
SUB.W FREQ*3 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [10]. : Cancels.

*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLCOK OFF" that you save the car's battery.*

*2 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

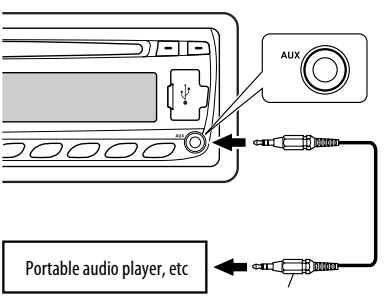
*3 *Displayed only when "L/O MODE" is set to "SUB.W."*

Continued on the next page

Indications	Item (__: Initial)	Selectable settings, [reference page]
AMP GAIN Amplifier gain control	• **LOW POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.)
	• **HIGH POWER**	: VOLUME 00 – VOLUME 50
AREA Tuner channel interval	• **AREA US**	: When using in North/Central/South America. AM/FM intervals are set to 10 kHz/200 kHz.
	• **AREA EU**	: When using in any other areas. AM/FM intervals are set to 9 kHz/ 50 kHz (100 kHz during auto search).
	• **AREA SA**	: When using in South American countries. AM/FM intervals are set to 10 kHz/100 kHz.

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

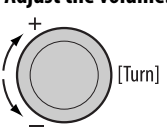


❶

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

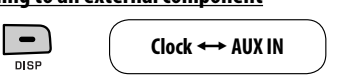
❷ **Turn on the connected component and start playing the source.**

❸ **Adjust the volume.**



❹ **Adjust the sound as you want. (See pages 11 and 12.)**

To check the other information while listening to an external component

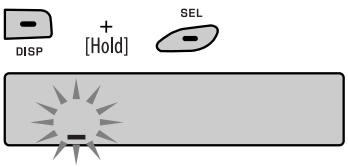


Title assignment

You can assign titles to 30 station frequencies (FM and AM) and up to 8 characters for each station name.

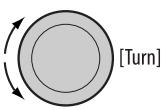
1 Select FM/AM.

2 Show the title entry screen.



3 Assign a title.

1 **Select a character.**



A	B	C	D	E	F	G
H	I	J	K	L	M	N
O	P	Q	R	S	T	U
V	W	X	Y	Z	0	1
2	3	4	5	6	7	8
9	–	/	<	>	space	

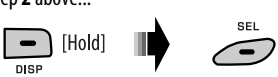
2 **Move to the next (or previous) character position.**

3 **Repeat steps 1 and 2 until you finish entering the title.**

4 Finish the procedure.

To erase the entire title

In step **2** above...



More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - – All previously stored stations are erased and the stations are stored anew.
  - – Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - – When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."

Continued on the next page

- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  – Discs are dirty or scratched.
  – Moisture condensation has occurred on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
  – The files on the CD-R/CD-RW are written using the "Packet Write" method.
  – There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "NO FILE" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops. Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

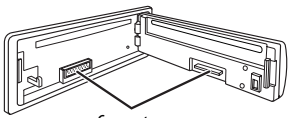
Title assignment

- If you try to assign titles to more than 30 station frequencies, "NAMEFULL" appears. Delete unwanted titles before assignment.

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

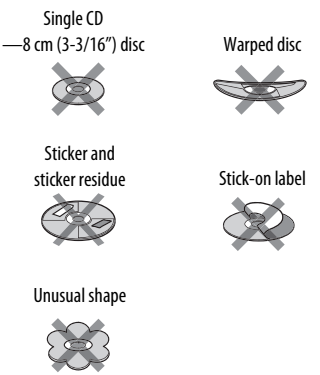
A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	
Power Output: **20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N** Signal-to-Noise Ratio: 80 dBA (reference: 1 W into 4 Ω)	
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass/Mid-range/ Treble:	±12 dB at 60 Hz/1 kHz/10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Line-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Output Impedance:	1 kΩ
Subwoofer-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Other Terminal:	AUX (auxiliary) input jack, USB input jack, Steering wheel remote input

TUNER SECTION	
Frequency Range:	
FM: 87.5 MHz to 107.9 MHz (with channel interval set to 100 kHz or 200 kHz) 87.5 MHz to 108.0 MHz (with channel interval set to 50 kHz)	
AM: 530 kHz to 1 710 kHz (with channel interval set to 10 kHz) 531 kHz to 1 602 kHz (with channel interval set to 9 kHz)	
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	35 dB
AM Tuner	
Sensitivity/Selectivity:	20 µV/35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format:	(MPEG1/2 Audio Layer 3)
Max. Bit Rate:	320 kbps
WMA (Windows Media® Audio) Decoding Format:	
Max. Bit Rate:	320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Storage:	Less than 8 GB (1 partition type)
Compatible Device:	Mass storage class (except HDD)
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	500 mA

GENERAL	
Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D): (approx.)	
Installation Size:	182 mm × 52 mm × 160 mm (7-3/16″ × 2-1/16″ × 6-5/16″)
Panel Size:	188 mm × 58 mm × 6 mm (7-7/16″ × 2-5/16″ × 1/4″)
Mass:	1.3 kg (2.9 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

Having TROUBLE with operation?
Please reset your unit

Refer to page of How to reset your unit

Still having trouble??

USA ONLY

Call 1-800-252-5722

http://www.jvc.com

We can help you!

JVC

EN, SP, FR

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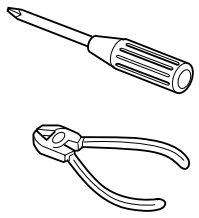
1107DTSMDTJEIN

JVC KD-G440

Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement



GET0526-002A
[J]

1107DTSMDTJEIN
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

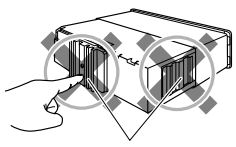
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 14 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / Sumidero térmico / *Dissipateur de chaleur*

ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

ADVERTENCIAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- **Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.**

Notas:

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar altavoces que tengan una potencia máxima de más de 50 W (tanto en las partes delantera como trasera, con una impedancia de **4 Ω á 8 Ω**). Si la potencia máxima es de menos de 50 W, cambie "AMP GAIN" para evitar daños en los altavoces (consulte la página 23 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los terminales de los conductores NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

AVERTISSEMENTS

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Il est recommandé de connecter des enceintes avec une puissance maximum de plus de 50 W (à l'arrière et à l'avant et avec une impédance de* **4 Ω à 8 Ω***). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 23 du MANUEL D'INSTRUCTIONS).*
- *Pour éviter les courts-circuits, recouvrez les extrémités des fils INUTILISÉS avec une bande isolante.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

PRECAUTIONS on power supply and speaker connections:

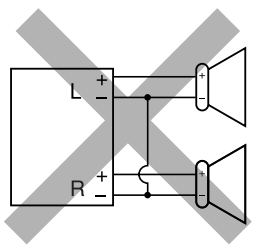
- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

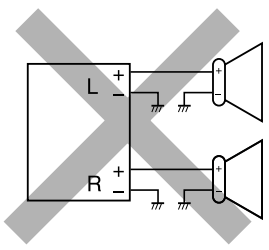
PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

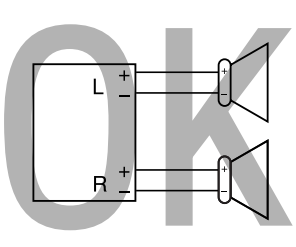
- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*

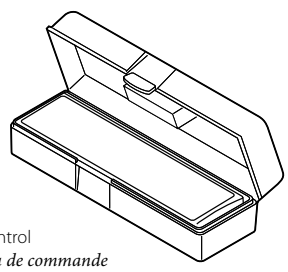






Parts list for installation and connection

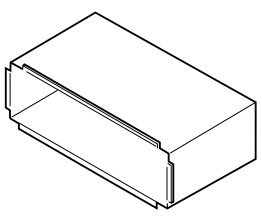
The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.



Ⓐ / Ⓑ
Hard case/Control panel
Estuche duro/Panel de control
Etui de transport/Panneau de commande

Lista de piezas para instalación y conexión

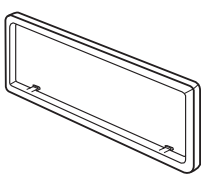
Con esta unidad se suministran las siguientes piezas. Si hay algún elemento faltante, consulte inmediatamente con su concesionario de JVC de equipos de audio para automóviles.



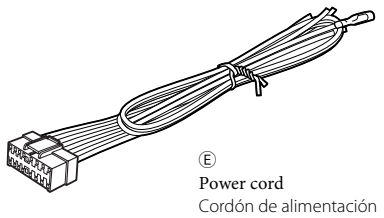
Ⓒ
Sleeve
Cubierta
Manchon

Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil. Si quelque chose manquait, consultez votre revendeur autoradio JVC immédiatement.



Ⓓ
Trim plate
Placa de guarnición
Plaque d'assemblage

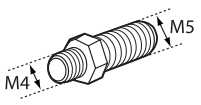


Ⓔ
Power cord
Cordón de alimentación
Cordon d'alimentation

Ⓕ
Washer (ø5)
Arandela (ø5)
Rondelle (ø5)

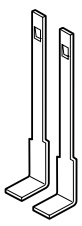
Ⓖ
Lock nut (M5)
Tuerca de seguridad (M5)
Ecrou d'arrêt (M5)

Ⓗ
Mounting bolt—M4 × 5 mm (M4 × 1/4"); M5 × 12.5 mm (M5 × 1/2")
Perno de montaje—M4 × 5 mm (M4 × 1/4 pulgada); M5 × 12.5 mm (M5 × 1/2 pulgada)
Boulon de montage—M4 × 5 mm (M4 × 1/4 pouces); M5 × 12.5 mm (M5 × 1/2 pouces)

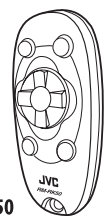


Ⓘ
Rubber cushion
Cojín de goma
Amortisseur en caoutchouc

Ⓙ
Handles
Manijas
Poignées



Ⓚ
Remote controller
Control remoto
Télécommande



RM-RK50

Ⓛ
Battery
Pila
Pile

CR2025

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

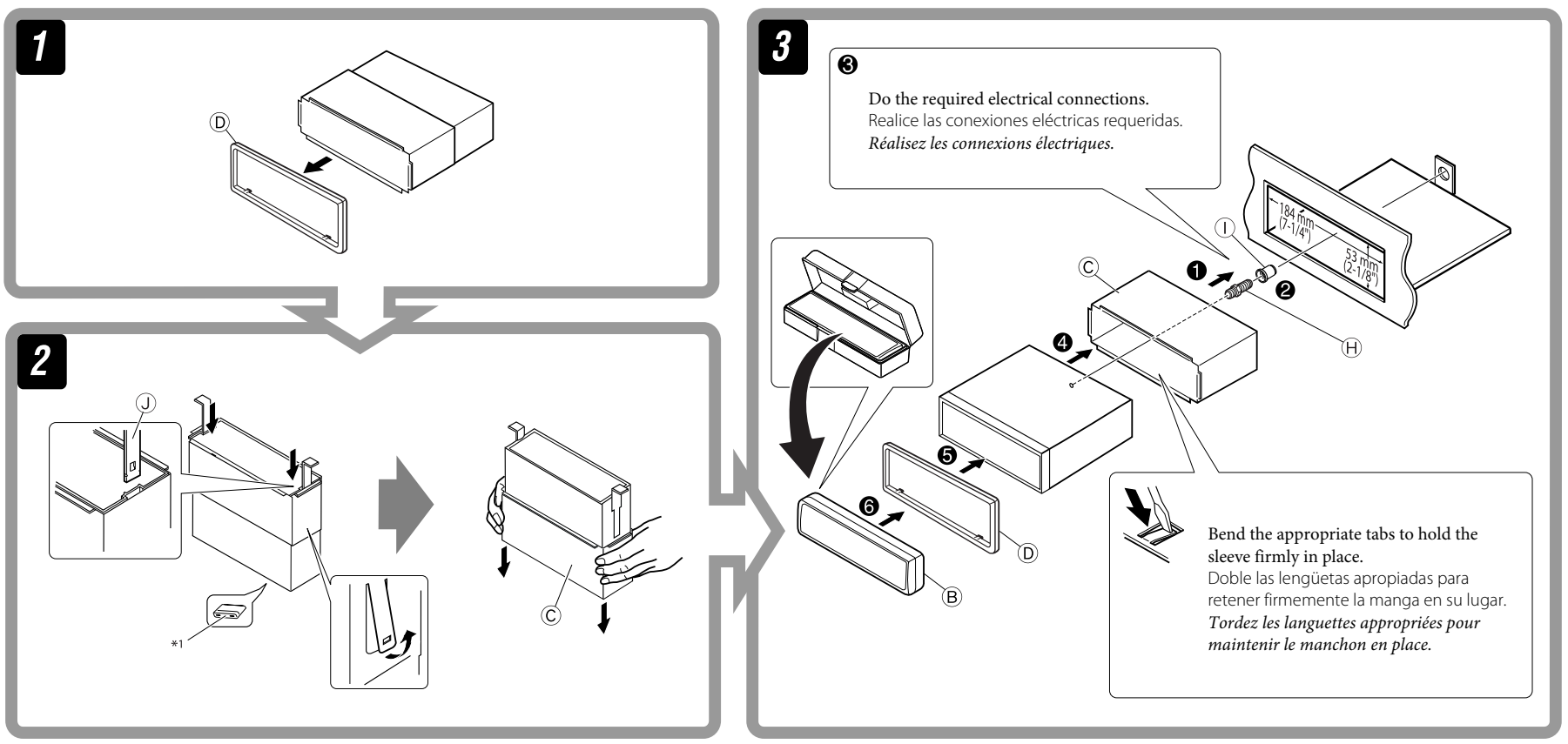
La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- *Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.*



Removing the unit

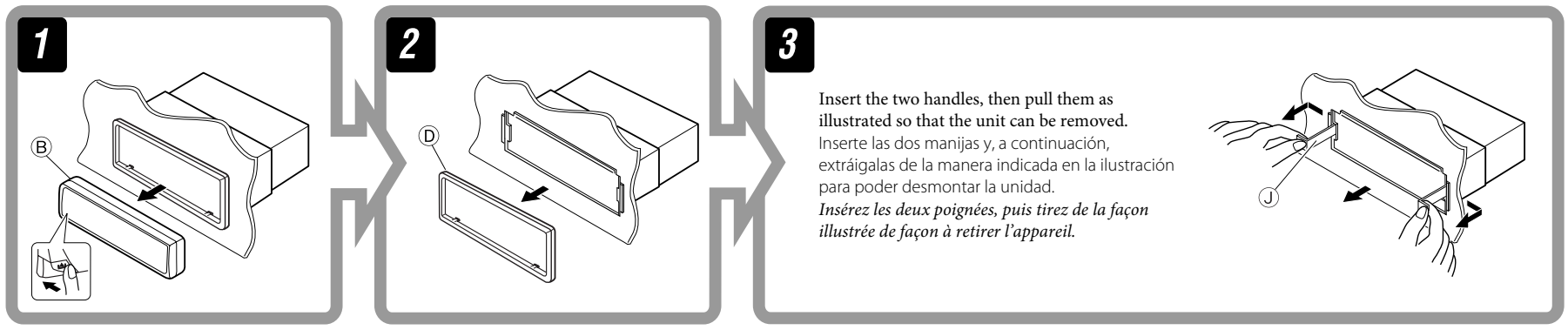
Before removing the unit, release the rear section.

Extracción de la unidad

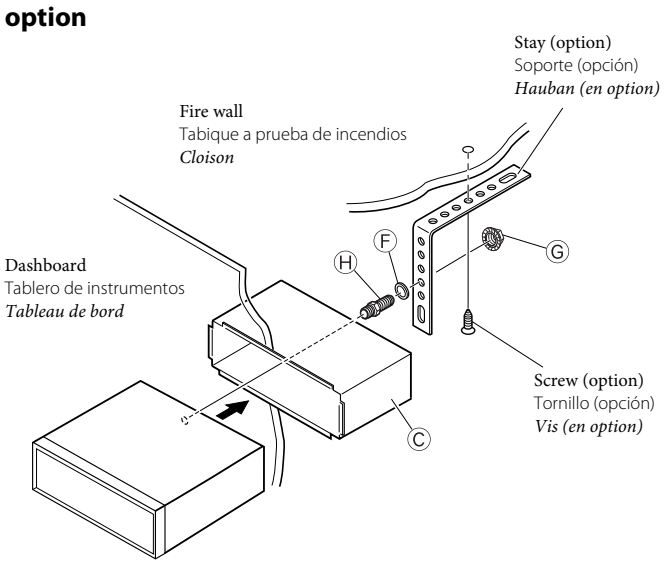
Antes de extraer la unidad, libere la sección trasera.

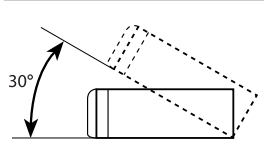
Retrait de l'appareil

Avant de retirer l'appareil, libérer la section arrière.


1
B
2
D
3
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Inserte las dos manijas y, a continuación, extráigalas de la manera indicada en la ilustración para poder desmontar la unidad.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.
J

When using the optional stay / Cuando emplea un soporte opcional / Lors de l'utilisation du hauban en option

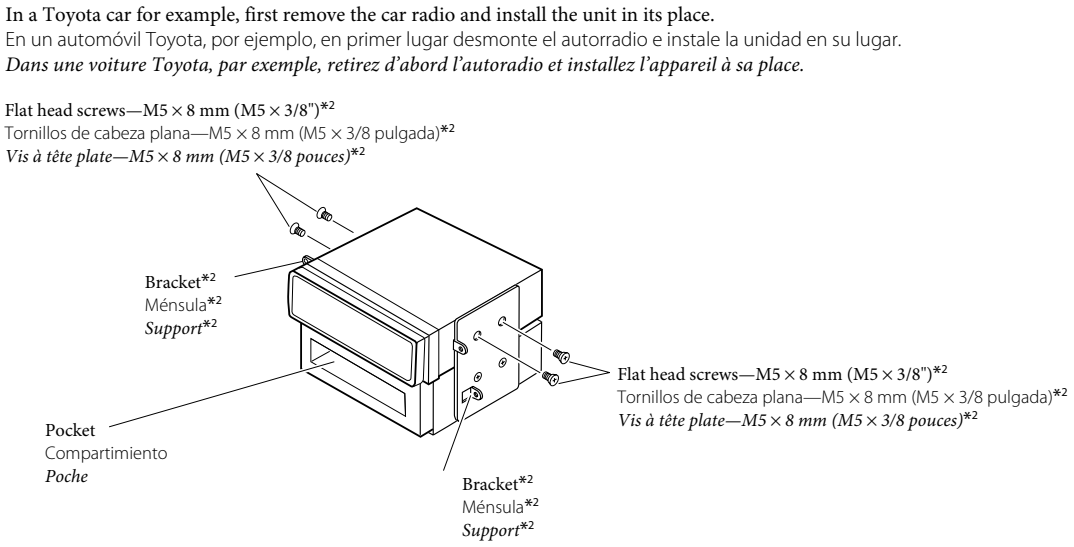




Install the unit at an angle of less than 30°.
Instale la unidad a un ángulo de menos de 30°.
Installez l'appareil avec un angle de moins de 30°.

When installing the unit without using the sleeve / Instalación de la unidad sin utilizar la cubierta / Lors de l'installation de l'appareil scans utiliser de manchon

In a Toyota car for example, first remove the car radio and install the unit in its place.
En un automóvil Toyota, por ejemplo, en primer lugar desmonte el autorradio e instale la unidad en su lugar.
Dans une voiture Toyota, par exemple, retirez d'abord l'autoradio et installez l'appareil à sa place.


Flat head screws—M5 × 8 mm (M5 × 3/8")*2
Tornillos de cabeza plana—M5 × 8 mm (M5 × 3/8 pulgada)*2
Vis à tête plate—M5 × 8 mm (M5 × 3/8 pouces)*2
Bracket*2
Ménsula*2
Support*2
Pocket
Compartimiento
Poche
Bracket*2
Ménsula*2
Support*2
Flat head screws—M5 × 8 mm (M5 × 3/8")*2
Tornillos de cabeza plana—M5 × 8 mm (M5 × 3/8 pulgada)*2
Vis à tête plate—M5 × 8 mm (M5 × 3/8 pouces)*2

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm (3/8") -long screws. If longer screws are used, they could damage the unit.

Nota : Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 8 mm (3/8 pulgada) de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.

Remarque : *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm (3/8 pouces). Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
*2 No suministrado con esta unidad.

*1 *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.*
*2 *Non fourni avec cet appareil.*

ENGLISH

ELECTRICAL CONNECTIONS

ESPAÑOL

CONEXIONES ELECTRICAS

FRANÇAIS

RACCORDEMENTS ELECTRIQUES

A Typical connections / Conexiones tipicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

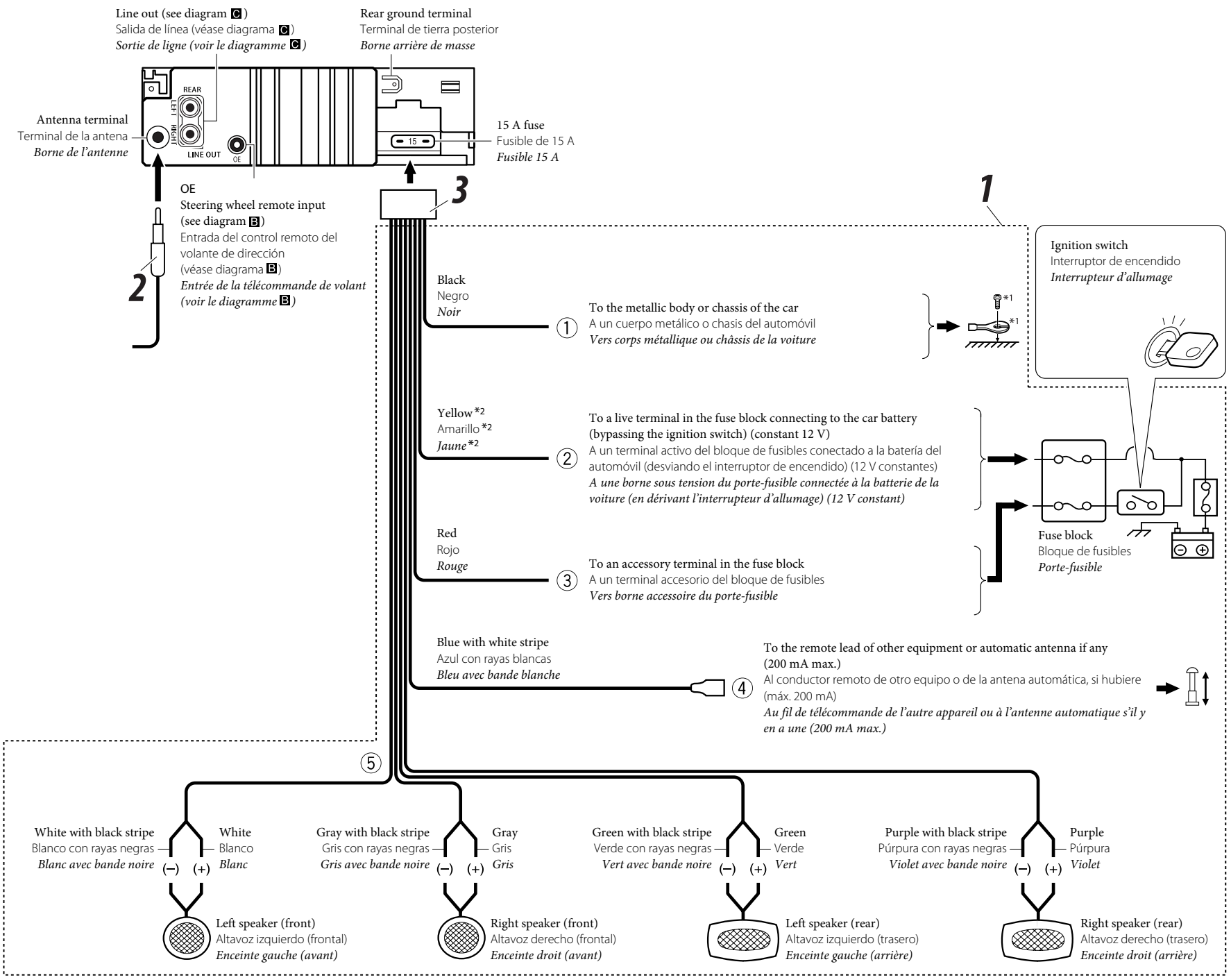
1. Connect the colored leads of the power cord in the order specified in the illustration below.
2. Connect the antenna cord.
3. Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.
Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.

1. Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
2. Conecte el cable de antena.
3. Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1. *Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.*
2. *Connectez le cordon d'antenne.*
3. *Finalement, connectez le faisceau de fils à l'appareil.*

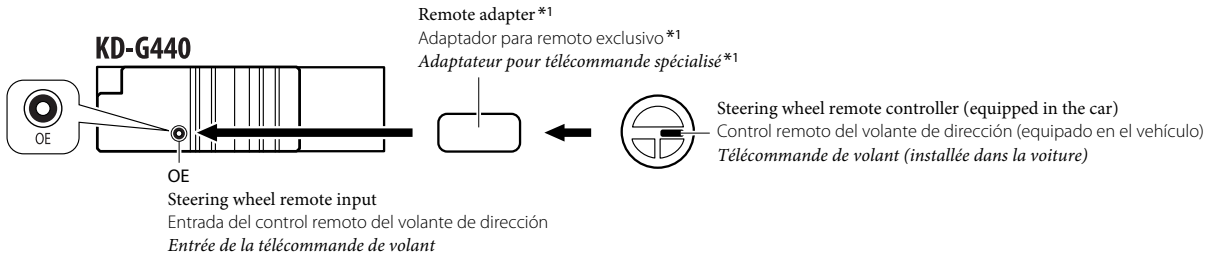


B Connecting to the steering wheel remote controller / Conexión al control remoto del volante de dirección / Connexion de la télécommande de volant

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. For connection, an exclusive remote adapter (not supplied) which matches your car is required. For details, consult the same car audio dealer as where the unit is purchased.

Si su automóvil está equipado con control remoto en el volante de dirección, podrá controlar este receptor utilizando el control remoto. Para la conexión, se requiere un adaptador remoto exclusivo (no suministrado) que sea adecuado para su automóvil. Para los detalles, consulte con el concesionario car audio donde compró el receptor.

Si votre voiture est équipée d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant cette télécommande. Pour la connexion, vous avez besoin d'un adaptateur de télécommande spécialisé (non fourni) correspondant à votre voiture. Pour en savoir plus, consultez le revendeur autoradio où vous avez acheté votre autoradio.


KD-G440
OE
OE
Steering wheel remote input
Entrada del control remoto del volante de dirección
Entrée de la télécommande de volant
Remote adapter *1
Adaptador para remoto exclusivo *1
Adaptateur pour télécommande spécialisé *1
Steering wheel remote controller (equipped in the car)
Control remoto del volante de dirección (equipado en el vehículo)
Télécommande de volant (installée dans la voiture)

*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 No suministrado con esta unidad.
*2 Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.

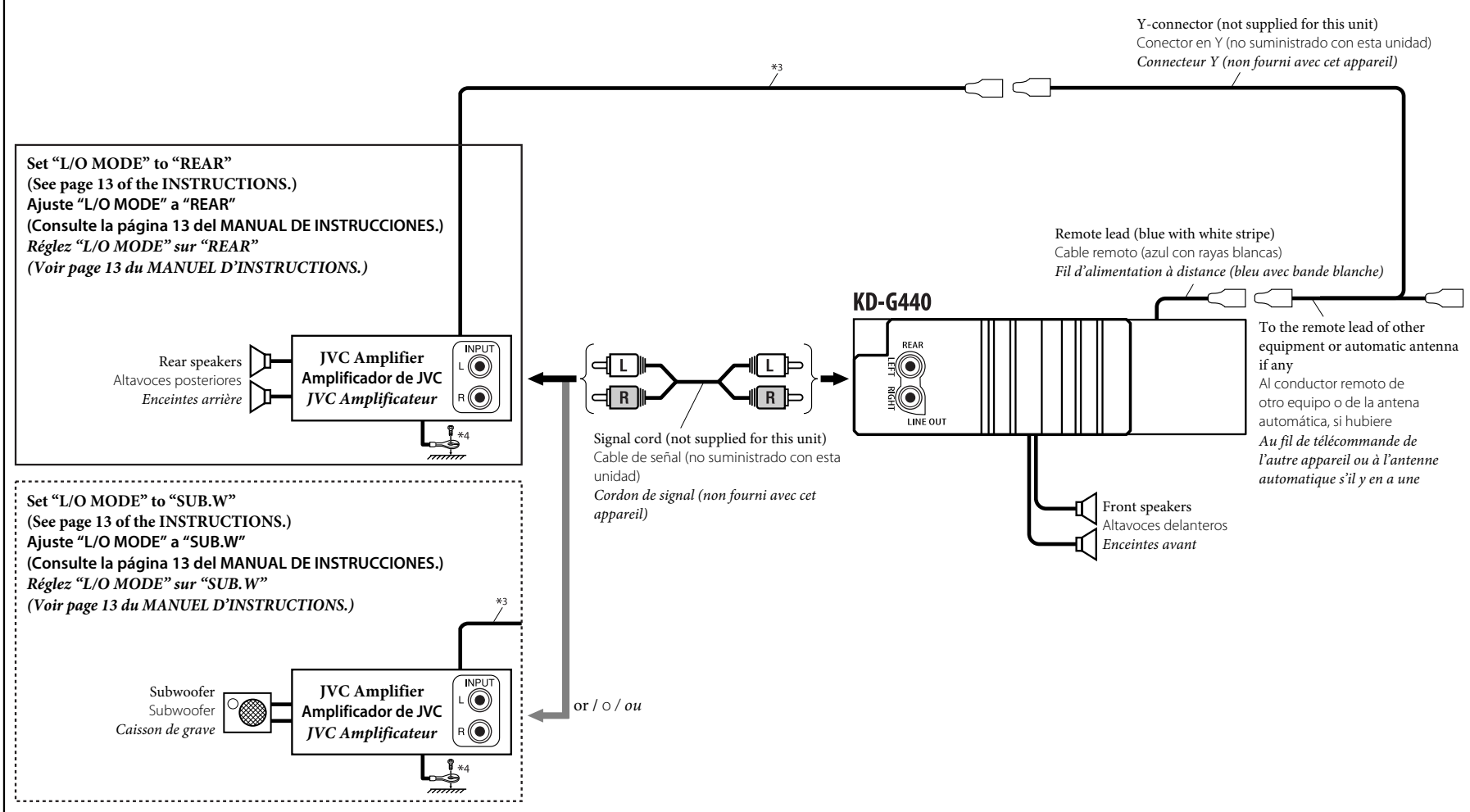
*1 *Non fourni avec cet appareil.*
*2 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*

C Connecting the external amplifiers or subwoofer / Conexión de los amplificadores o subwoofer externos / Connexion d'amplificateurs extérieurs ou d'un caisson de grave

You can connect an amplifier to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Usted podrá conectar un amplificador para mejorar el sistema estéreo de su automóvil.
- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
- **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**

Vous pouvez connecter un amplificateur pour améliorer votre système autoradio.
- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**


Y-connector (not supplied for this unit)
Conector en Y (no suministrado con esta unidad)
Connecteur Y (non fourni avec cet appareil)
*3
Set "L/O MODE" to "REAR"
(See page 13 of the INSTRUCTIONS.)
Ajuste "L/O MODE" a "REAR"
(Consulte la página 13 del MANUAL DE INSTRUCCIONES.)
Réglez "L/O MODE" sur "REAR"
(Voir page 13 du MANUEL D'INSTRUCTIONS.)
Remote lead (blue with white stripe)
Cable remoto (azul con rayas blancas)
Fil d'alimentation à distance (bleu avec bande blanche)
KD-G440
Rear speakers
Altavoces posteriores
Enceintes arrière
JVC Amplifier
Amplificador de JVC
JVC Amplificateur
INPUT
L
R
*4
REAR
LEFT
RIGHT
LINE OUT
To the remote lead of other equipment or automatic antenna if any
Al conductor remoto de otro equipo o de la antena automática, si hubiere
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une
Signal cord (not supplied for this unit)
Cable de señal (no suministrado con esta unidad)
Cordon de signal (non fourni avec cet appareil)
Front speakers
Altavoces delanteros
Enceintes avant
Set "L/O MODE" to "SUB.W"
(See page 13 of the INSTRUCTIONS.)
Ajuste "L/O MODE" a "SUB.W"
(Consulte la página 13 del MANUAL DE INSTRUCCIONES.)
Réglez "L/O MODE" sur "SUB.W"
(Voir page 13 du MANUEL D'INSTRUCTIONS.)
Subwoofer
Subwoofer
Caisson de grave
or / o / ou

*3 Remote lead *4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.	*3 Cable remoto *4 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.	*3 *Fil d'alimentation à distance* *4 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

LOCALIZACION DE AVERIAS

- **El fusible se quema.**
* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
* ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
* ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **Perturbación de ruido.**
* ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
- **Esta unidad se calienta.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **Esta unidad no funciona en absoluto.**
* ¿Reinicializó la unidad?

EN CAS DE DIFFICULTES

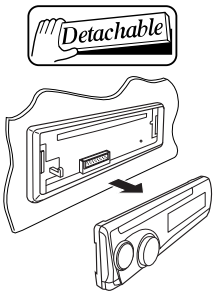
- **Le fusible saute.**
* *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
* *Le fil jaune est-elle raccordée?*
- **Pas de son des enceintes.**
* *Le fil de sortie d'enceinte est-il court-circuité?*
- **Le son est déformé.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Interférence avec les sons.**
* *La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?*
- **Cet appareil devient chaud.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Cet appareil ne fonctionne pas du tout.**
* *Avez-vous réinitialisé votre appareil?*

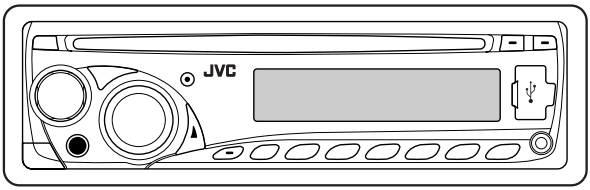
ENGLISH

FRANÇAIS

CD RECEIVER
RÉCEPTEUR CD

KD-G441/KD-G351





WMA MP3 R·D·S COMPACT disc DIGITAL AUDIO TEXT

For canceling the display demonstration, see page 5.
Pour annuler la démonstration des affichages, référez-vous à la page 5.

For installation and connections, refer to the separate manual.
Pour l'installation et les raccordements, se référer au manuel séparé.

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

GET0500-003A
[EX/EU]

ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACION LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

This symbol is only valid in the European Union.

Information for Users on Disposal of Old Equipment

This symbol indicates that the product with this symbol should not be disposed as general household waste at its end-of-life. If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country and municipality. By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health.

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Note: Only for [EX] model users in UK and European countries

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

For safety...

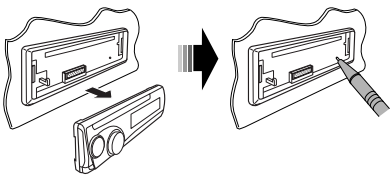
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

The control panel illustrations used for explanation in this manual is of KD-G441.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions, press M MODE again.

- Waiting for about 5 seconds without pressing any of these buttons will automatically cancels the functions mode.

KD-G441 is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

CONTENTS

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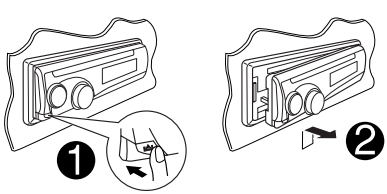
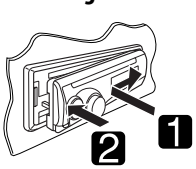
Detaching the control panel

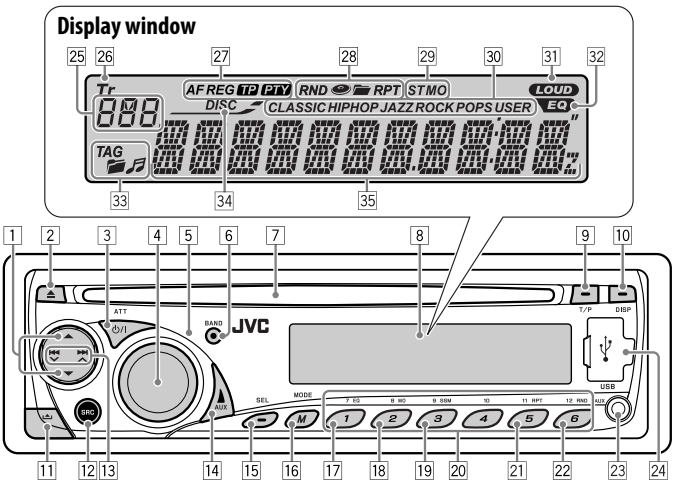


Attaching the control panel



Control panel — KD-G441/KD-G351

Parts identification

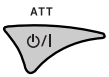


1 ▲ (up) / ▼ (down) buttons
2 ⏏ (eject) button
3 ⏻/I ATT (standby/on attenuator) button
4 Control dial
5 Remote sensor
   - For KD-G441: You can control this unit with an optionally purchased remote controller. For details, see page 17.
   - DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6 BAND button
7 Loading slot
8 Display window
9 T/P (traffic programme/programme type) button
10 DISP (display) button
11 ⏏ (control panel release) button
12 SRC (source) button
13 |◄◄ ∨/►►| ∧ buttons
14 AUX (auxiliary) button
15 SEL (select) button
16 M MODE button
17 EQ (equalizer) button
18 MO (monaural) button
19 SSM (Strong-station Sequential Memory) button
20 Number buttons
21 RPT (repeat) button
22 RND (random) button
23 AUX (auxiliary) input jack
24 USB (Universal Serial Bus) input jack
25 Source display / Track number / Folder number / Time countdown indicator
26 Tr (track) indicator
27 RDS indicators—AF, REG, TP, PTY
28 Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
29 Tuner reception indicators—ST (stereo), MO (monaural)
30 Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
31 LOUD (loudness) indicator
32 EQ (equalizer) indicator
33 Disc information indicators— TAG (Tag information), (folder), (track/file)
34 DISC indicator
35 Main display

Getting started

Basic operations

1 **Turn on the power.**

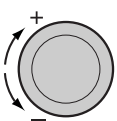


2

* *You cannot select these sources if they are not ready or not connected.*

3 **For FM/AM tuner**

4 **Adjust the volume.**

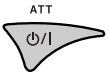
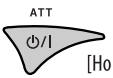


Volume level appears.

5 **Adjust the sound as you want. (See page 13.)**

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

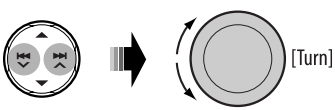
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 14 – 16.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR", then adjust the hour.
Select "CLOCK MIN" (minute), then adjust the minute.
Select "24H/12H," then "24 HOUR" or "12 HOUR".

3 **Finish the procedure.**

To check the current clock time while the power is turned off

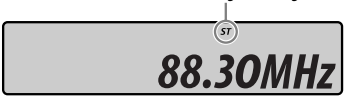
Clock time is shown on the display for about 5 seconds. See also page 14.

Radio operations

1 SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

2 BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



3 **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step 3 above...

1 [Hold]

2 Select a desired station frequency.

When an FM stereo broadcast is hard to receive

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE (M)

3 9 SSM (3) [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2

92.50MHz

3 10 / 4 [Hold]

P4

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 Select the preset station (1 – 6) you want.

or

To check the other information while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 9.

DISP → Frequency ↔ Clock

FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8, 9, and 15)
- Tracing the same programme automatically —Network-Tracking Reception (see page 9)
- Programme Search (see pages 9 and 15)

Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

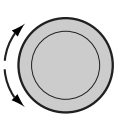
- To store your favorite programme types, see page 8.

1 T/P [Hold] — The last selected PTY code appears.

2 Select one of your favorite programme types.

or

Select one of the PTY codes (see page 9).



[Turn]

Continued on the next page

3 Start searching for your favorite programme.

If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

1 Select a PTY code (see pages 7 and 8).

2 Select the preset number (1 – 6) you want to store into.

[Hold]

Ex.: When "ROCK M" is selected

3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.

4 Finish the procedure.

[Hold]

Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.
The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 15).

To activate TA Standby Reception

The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
  To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception

The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 15.
The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
  To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 15). The PTY indicator goes off.

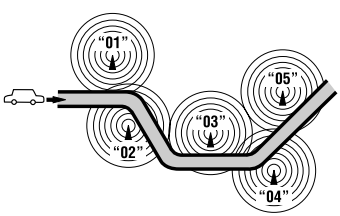
Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-REG" on page 15.

Programme A broadcasting on different frequency areas (01 – 05)



Automatic station selection— Programme Search

Usually when you press the number buttons, the preset station is tuned in.

If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 15.

To check the current clock time while listening to an FM RDS station

Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

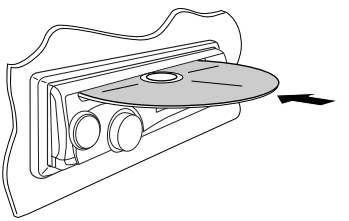
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc/USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

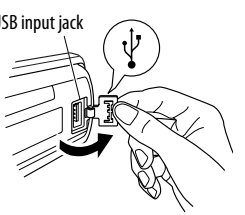
To stop play and eject the disc

- Press SRC to listen to another playback source.

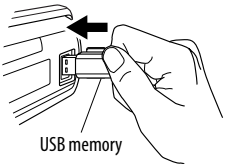
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



2



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

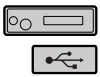
- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

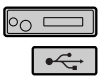
- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 19 and 20.

To fast-forward or reverse the track

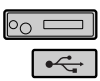
[Hold]



To go to the next or previous track



To go to the next or previous folder (for MP3/WMA)



To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

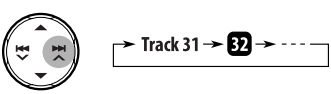
1

2

Each time you press the button, you can skip 10 tracks.

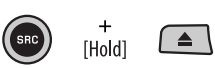
- After the last track, the first track will be selected and vice versa.

3



Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → B → Disc title/performer*1 **→ Track title***1 [♫] → (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 16)**

A → B → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♫] → (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → B → Folder name [📁] **→ File name** [♫] → (back to the beginning)

A : The elapsed playing time with the current track number
B : Clock with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1

2 Select your desired playback mode.

■ **Repeat play**

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [📁 *RPT*]
RPT OFF	: Cancels.

■ **Random play**

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND* 📁]
ALL RND	: All tracks of the current disc or USB device. [*RND* 💿]
RND OFF	: Cancels.

* *Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

1 MODE

2 7 EQ

USER → ROCK → CLASSIC → POPS → HIP HOP → JAZZ

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → MIDDLE → TREBLE → FADER → BALANCE → VOLUME → VOL ADJ → SUB.W*1 → LOUD

2 [Turn]

Indication, [Range]

BASS *2, [–06 to +06]
Adjust the bass.

MIDDLE *2 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *2, [–06 to +06]
Adjust the treble.

FADER *3, [R06 to F06]
Adjust the front and rear speaker balance.

BALANCE *4, [L06 to R06]
Adjust the left and right speaker balance.

LOUD *5 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W*1, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *For KD-G441: Displayed only when "L/O MODE" is set to "SUB.W" (see page 15).*

*2 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*3 *If you are using a two-speaker system, set the fader level to "00."*

*4 *This adjustment will not affect the subwoofer output.*

*5 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*6 *Depending on the amplifier gain control setting. (See page 16 for details.)*

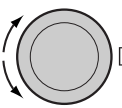
General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table below and on pages 15 and 16.

1 SEL [Hold]

2 **Select a PSM item.**

3 **Adjust the PSM item selected.**



4 **Repeat steps 2 and 3 to adjust other PSM items if necessary.**

5 **Finish the procedure.**

SEL

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [5].
	• **DEMO OFF**	: Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON**	: The clock time is shown on the display at all times when the power is turned off.
	• **CLOCK OFF**	: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].
CLOCK HOUR Hour adjustment	**0 – 23 (1 – 12)**	[Initial: 0 (0:00)], [5].
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (0:00)], [5].
24H/12H Time display mode	• **24 HOUR**	: See also page 5 for setting.
	• **12 HOUR**	
CLOCK ADJ *2 Clock adjustment	• **AUTO**	: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal.
	• **OFF**	: Cancels.

*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended that you select "CLOCK OFF" to save the car's battery.*

Indications	Item (__: Initial)	Selectable settings, [reference page]
AF-REG *2 Alternative frequency/ regionalization reception	• **AF**	: When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [9]. • The AF indicator lights up.
	• **AF-REG**	: When the currently received signals become weak, the unit switches to another station broadcasting the same programme. • The AF and REG indicators light up.
	• **AF OFF**	: Cancels.
PTY-STANDBY *2 PTY standby	**OFF**, **PTY codes**	Activates PTY Standby Reception with one of the PTY codes, [8, 9].
TA VOLUME *2 Traffic announcement volume	**VOLUME 00 – VOLUME 50** (or **VOLUME 00 – VOLUME 30**)*3	[Initial: VOLUME 15]
P-SEARCH *2 Programme search	• **ON**	: Activates Programme Search, [9].
	• **OFF**	: Cancels.
DIMMER Dimmer	• **ON**	: Dims the display and button illumination.
	• **OFF**	: Cancels.
TEL MUTING Telephone muting	• **MUTING 1/ MUTING 2**	: Select either one which mutes the sounds while using a cellular phone.
	• **MUTING OFF**	: Cancels.
SCROLL *4 Scroll	• **ONCE**	: Scrolls the displayed information once.
	• **AUTO**	: Repeats scrolling (at 5-second intervals).
	• **OFF**	: Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE *5 Line output mode	• **REAR**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	• **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).

*2 *Only for FM RDS stations.*

*3 *Depends on the amplifier gain control.*

*4 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*5 *For KD-G441.*

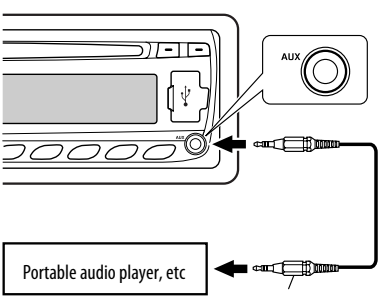
Continued on the next page

Indications	Item (__: Initial)	Selectable settings, [reference page]
SUB.W FREQ*6 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [12]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid them from damaging the speaker.) : VOLUME 00 – VOLUME 50
IF BAND Intermediate frequency band	• **AUTO** • **WIDE**	: Increases the tuner selectivity to reduce interference noise between close stations. (The stereo effect may be lost.) : Subject to the interference noise from adjacent stations, but the sound quality will not be degraded and the stereo effect will remain.

*6 *For KD-G441: Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

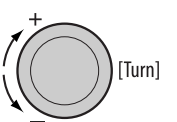


1

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

2 **Turn on the connected component and start playing the source.**

3 **Adjust the volume.**



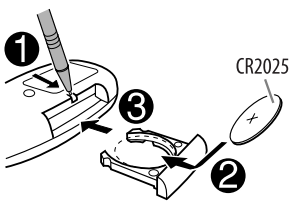
4 **Adjust the sound as you want. (See page 13.)**

To check the other information while listening to an external component

Remote controller — RM-RK50

KD-G441 can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.

Installing the lithium coin battery (CR2025)

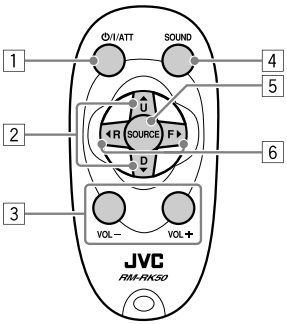


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically.
- If you want to know more about RDS, visit <http://www.rds.org.uk>.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.

- Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, “NO FILE” appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

Continued on the next page

- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
- Use a shielded USB cable of less than 1 m in length.

Changing the source

- If you change the source, playback also stops. Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

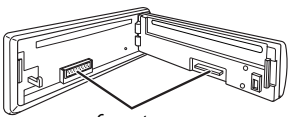
General settings—PSM

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

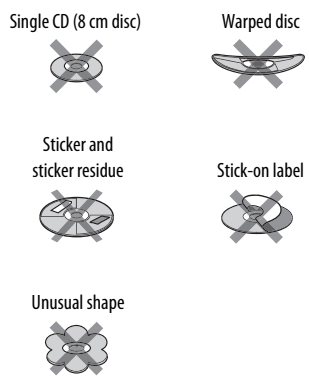
A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 11). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
	Tone Control Range:	Bass:	±12 dB at 60 Hz
		Middle:	±12 dB at 1 kHz
		Treble:	±12 dB at 10 kHz
	Frequency Response:		40 Hz to 20 000 Hz
	Signal to Noise Ratio:		70 dB
	Audio Output Level: (for KD-G441)	Line-Out Level/Impedance:	2.5 V/20 kΩ load (full scale)
		Output Impedance:	1 kΩ
		Subwoofer-Out Level/Impedance:	2.5 V /20 kΩ load (full scale)
	Other Terminals:		AUX (auxiliary) input jack, USB input jack, Steering wheel remote input (for KD-G441)

TUNER SECTION	Frequency Range:	FM:	87.5 MHz to 108.0 MHz
		AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
	FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	40 Hz to 15 000 Hz
		Stereo Separation:	30 dB
	MW Tuner:	Sensitivity/Selectivity:	20 µV/35 dB
	LW Tuner:	Sensitivity:	50 µV

CD PLAYER SECTION	Type:		Compact disc player
	Signal Detection System:	Non-contact optical pickup (semiconductor laser)	
	Number of Channels:		2 channels (stereo)
	Frequency Response:		5 Hz to 20 000 Hz
	Dynamic Range:		96 dB
	Signal-to-Noise Ratio:		98 dB
	Wow and Flutter:		Less than measurable limit
	MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate:	320 kbps
	WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate:	320 kbps

USB SECTION	USB Standard:	USB 1.1, USB 2.0
	Data Transfer Rate (Full Speed):	Max. 12 Mbps
	Storage:	Less than 8 GB (1 partition type)
	Compatible Device:	Mass storage class (except HDD)
	Compatible File System:	FAT 32/16/12
	Playable Audio Format:	MP3/WMA
	Max. Current:	500 mA

GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D):	Installation Size (approx.):	182 mm × 52 mm × 160 mm
		Panel Size (approx.):	188 mm × 58 mm × 13 mm
	Mass (approx.):		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit

Vous avez des PROBLÈMES de fonctionnement?
Réinitialisez votre appareil
Référez-vous à la page intitulée Comment réinitialiser votre appareil

Dear Customer,
This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Germany

Cher(e) client(e),
Cet appareil est conforme aux directives et normes européennes en vigueur concernant la compatibilité électromagnétique et à la sécurité électrique.

Représentant européen de la société Victor Company of Japan, Limited:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Allemagne

JVC

EN, FR

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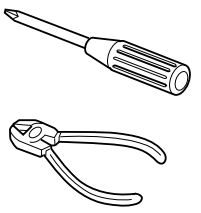
1107DTSMDTJEIN

KD-G441/KD-G351

Installation/Connection Manual
Manuel d'installation/raccordement



GET0500-010A
[EX/EU]

1107DTSMDTJEIN
EN, FR
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

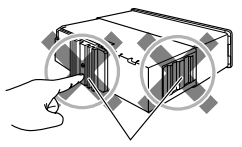
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 16 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink
Dissipateur de chaleur

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

AVERTISSEMENTS

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

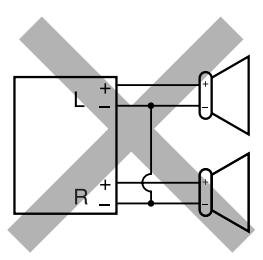
- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

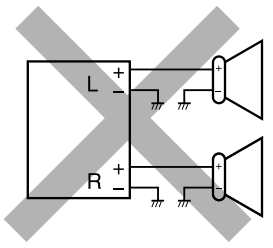
Remarques:

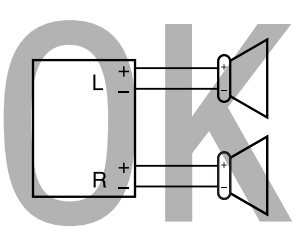
- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Il est recommandé de connecter des enceintes avec une puissance maximum de plus de 50 W (à l'arrière et à l'avant et avec une impédance de* **4 Ω à 8 Ω***). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 16 du MANUEL D'INSTRUCTIONS).*
- *Pour éviter les courts-circuits, recouvrez les extrémités des fils INUTILISÉS avec une bande isolante.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.







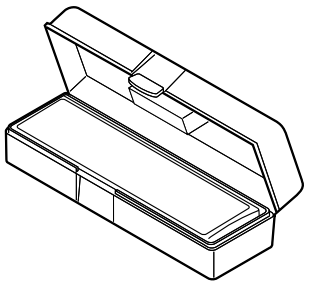
PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*

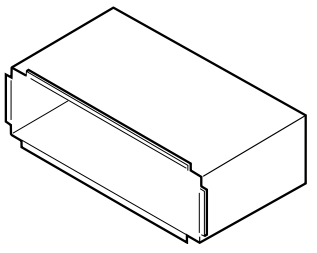
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

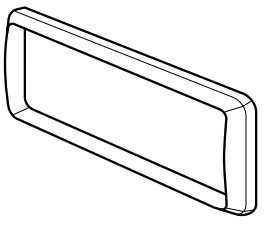
Ⓐ / Ⓑ
Hard case (only for KD-G441)/
Control panel
Etui de transport (uniquement pour le KD-G441)/Panneau de commande



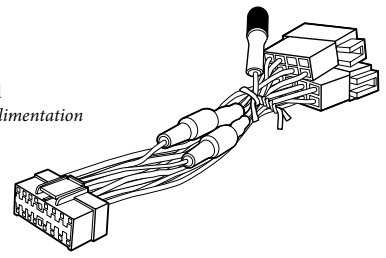
Ⓒ
Sleeve
Manchon



Ⓓ
Trim plate
Plaque d'assemblage



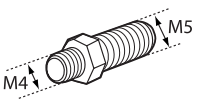
Ⓔ
Power cord
Cordon d'alimentation



Ⓕ
Washer (ø5)
Rondelle (ø5)

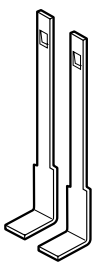
Ⓖ
Lock nut (M5)
Ecrou d'arrêt (M5)

Ⓗ
Mounting bolt
(M4 × 5 mm; M5 × 12.5 mm)
Boulon de montage
(M4 × 5 mm; M5 × 12.5 mm)



Ⓘ
Rubber cushion
Amortisseur en caoutchouc

Ⓙ
Handles
Poignées



Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil. Si quelque chose manquait, consultez votre revendeur autoradio JVC immédiatement.

INSTALLATION (IN-DASH MOUNTING)

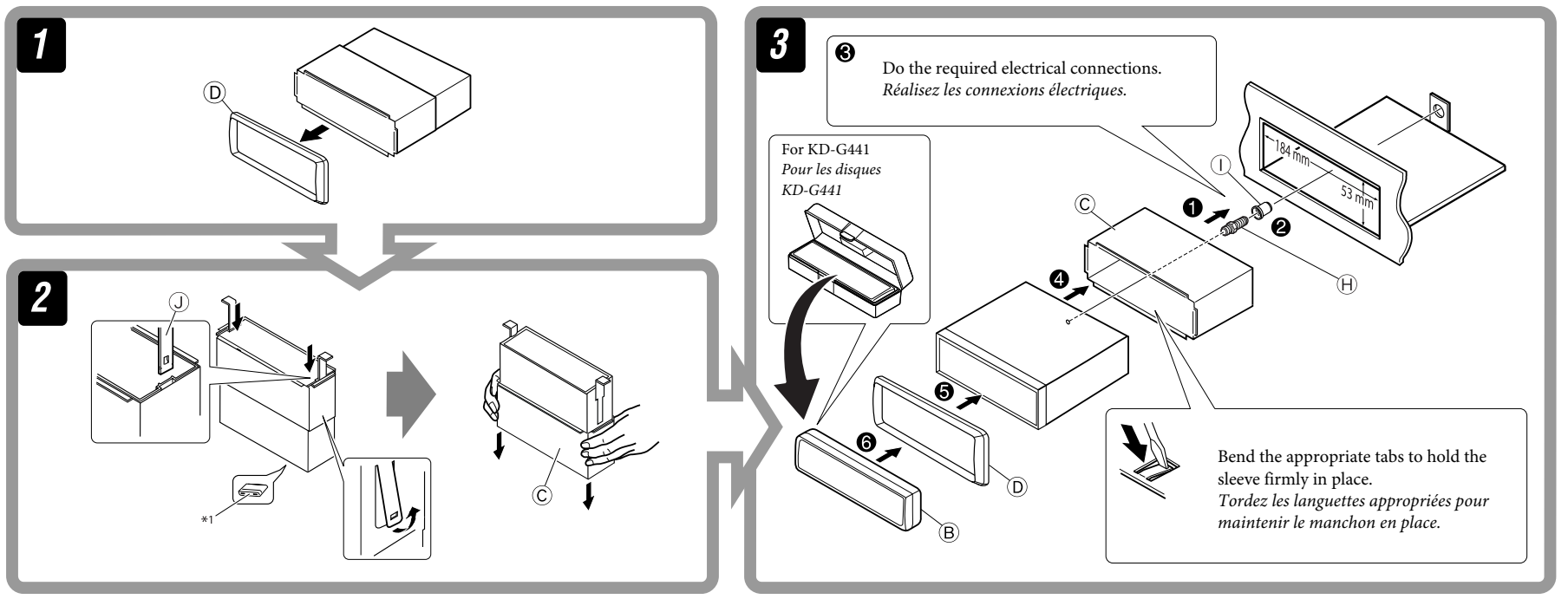
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- *Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.*

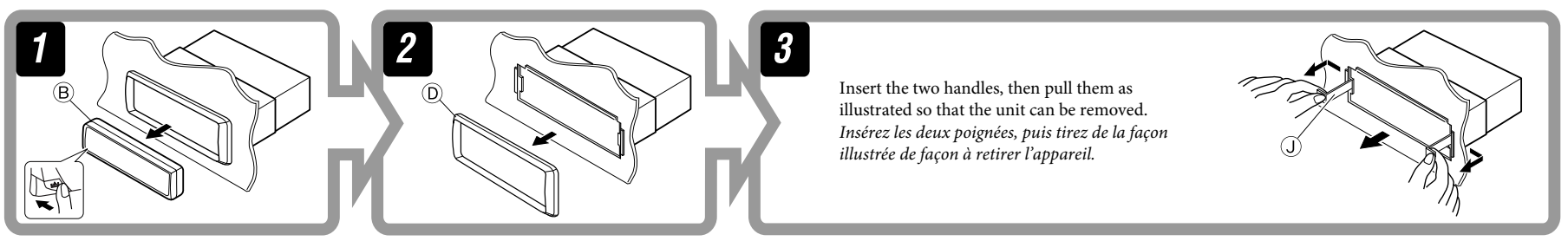


Removing the unit

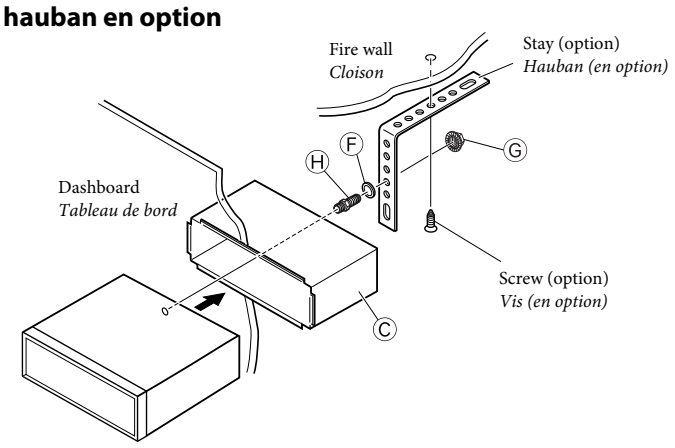
Before removing the unit, release the rear section.

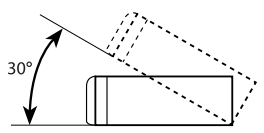
Retrait de l'appareil

Avant de retirer l'appareil, libérer la section arrière.


1
B
2
D
3
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.
J

When using the optional stay / Lors de l'utilisation du hauban en option

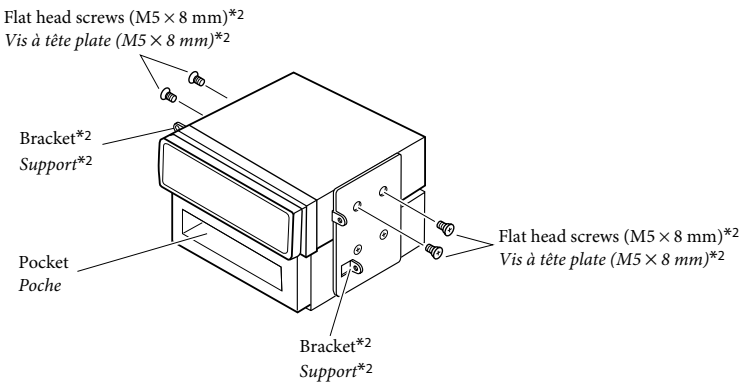




Install the unit at an angle of less than 30˚.
Installez l'appareil avec un angle de moins de 30˚.

When installing the unit without using the sleeve / Lors de l'installation de l'appareil scans utiliser de manchon

In a Toyota car for example, first remove the car radio and install the unit in its place.
Dans une voiture Toyota, par exemple, retirez d'abord l'autoradio et installez l'appareil à sa place.



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Remarque : *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.*
*2 *Non fourni avec cet autoradio.*

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?

- **Power cannot be turned on.**
* Is the yellow lead connected?

- **No sound from the speakers.**
* Is the speaker output lead short-circuited?

- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**
* Have you reset your unit?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* *Les fils rouge et noir sont-ils racordés correctement?*

- **L'appareil ne peut pas être mise sous tension.**
* *Le fil jaune est-elle raccordée?*

- **Pas de son des enceintes.**
* *Le fil de sortie d'enceinte est-il court-circuité?*

- **Le son est déformé.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*

- **Interférence avec les sons.**
* *La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?*

- **L'appareil devient chaud.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*

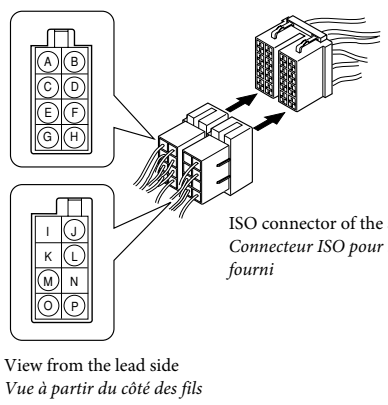
- **Cet appareil ne fonctionne pas du tout.**
* *Avez-vous réinitialisé votre appareil?*

ENGLISH

ELECTRICAL CONNECTIONS

A If your car is equipped with the ISO connector / Si votre voiture est équipée d'un connecteur ISO

- Connect the ISO connectors as illustrated.
- *Connectez les connecteurs ISO comme montré sur l'illustration.*



From the car body
De la carrosserie de la voiture

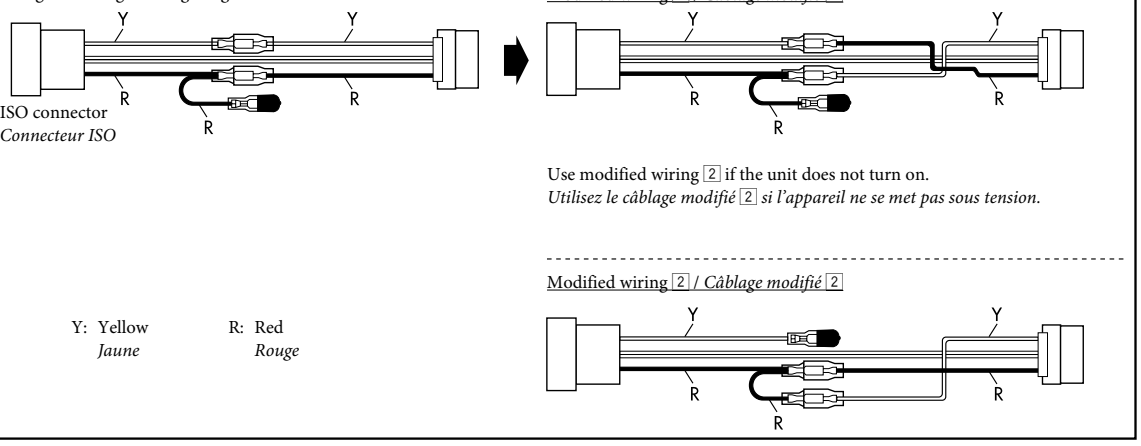
ISO connector of the supplied power cord
Connecteur ISO pour le cordon d'alimentation fourni

View from the lead side
Vue à partir du côté des fils

For some VW/Audi or Opel (Vauxhall) automobiles / Pour certaines automobiles VW/Audi ou Opel (Vauxhall)

You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.

Vous aurrez peut-être besoin de modifier le câblage du cordon d'alimentation fourni comme montré sur l'illustration.
- *Contactez votre revendeur automobile autorisé avant d'installer l'appareil.*



Use modified wiring 2 if the unit does not turn on.
Utilisez le câblage modifié 2 si l'appareil ne se met pas sous tension.

Y: Yellow *Jaune*
R: Red *Rouge*

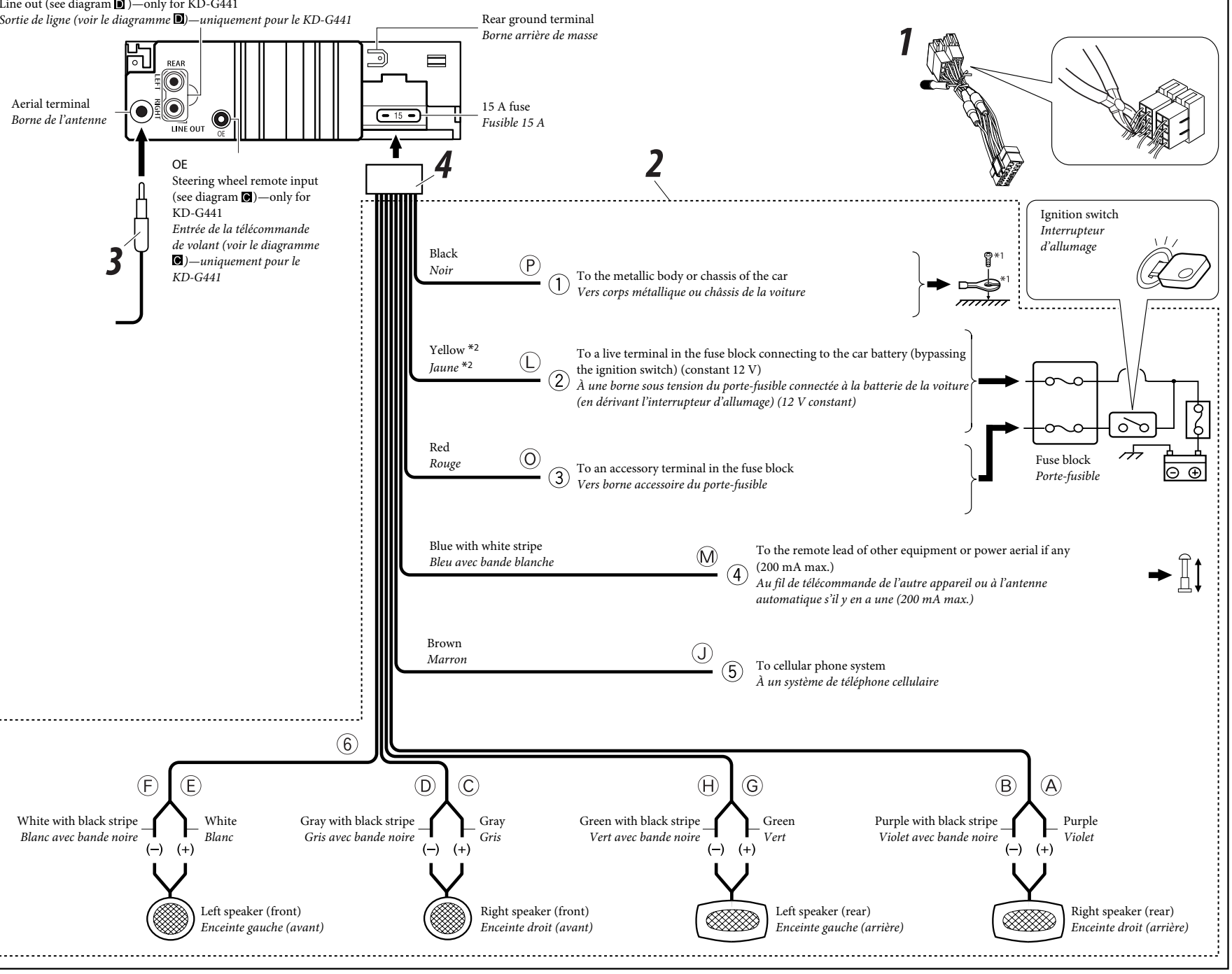
B Connections without using the ISO connector / Connexions sans utiliser le connecteur ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the unit.

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1. *Coupez le connecteur ISO.*
2. *Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.*
3. *Connectez le cordon d'antenne.*
4. *Finalement, connectez le faisceau de fils à l'appareil.*



*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 *Non fourni avec cet autoradio.*
*2 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*

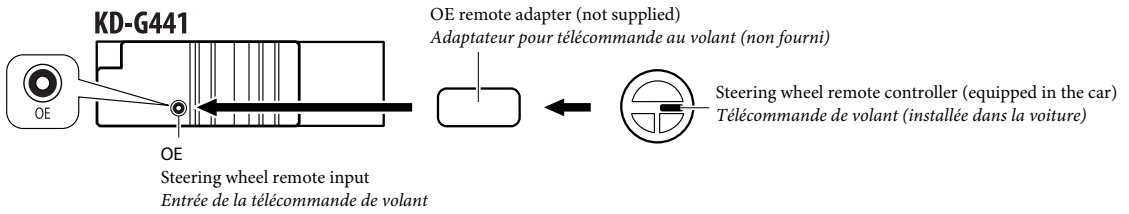
FRANÇAIS

RACCORDEMENTS ELECTRIQUES

C Connecting to the steering wheel remote controller (only for KD-G441) / Connexion de la télécommande de volant (uniquement pour le KD-G441)

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.

Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant JVC (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails.


KD-G441
OE
OE remote adapter (not supplied)
Adaptateur pour télécommande au volant (non fourni)
Steering wheel remote controller (equipped in the car)
Télécommande de volant (installée dans la voiture)
OE
Steering wheel remote input
Entrée de la télécommande de volant

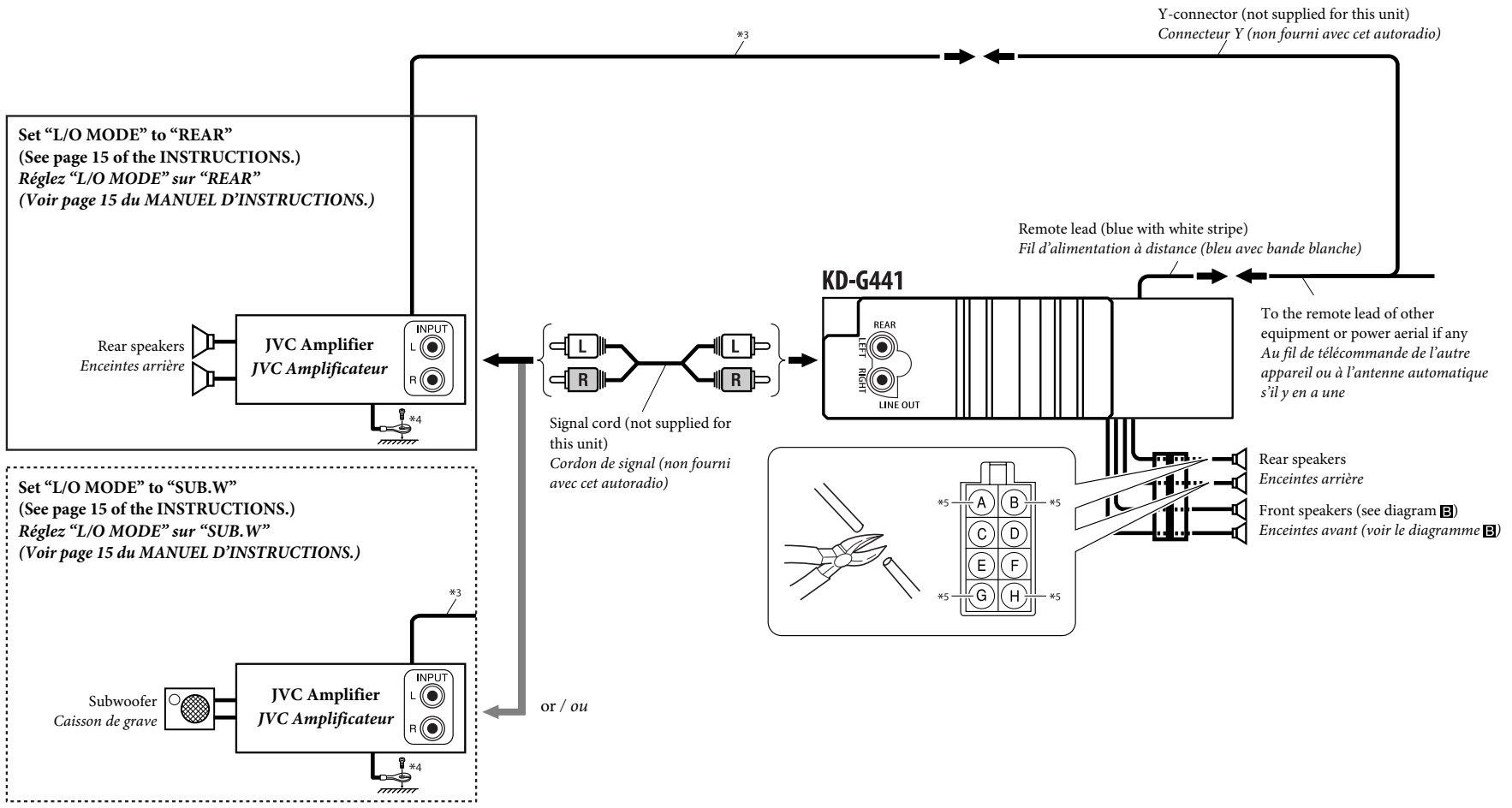
D Connecting the external amplifier or subwoofer (only for KD-G441) / Connexion d'un amplificateur extérieur ou d'un caisson de grave (uniquement pour le KD-G441)

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Vous pouvez connecter un amplificateur pour améliorer votre système autoradio.

- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**



*3 Remote lead

*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*5 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.

*3 *Fil d'alimentation à distance*

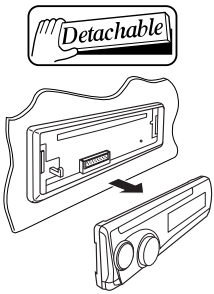
*4 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*

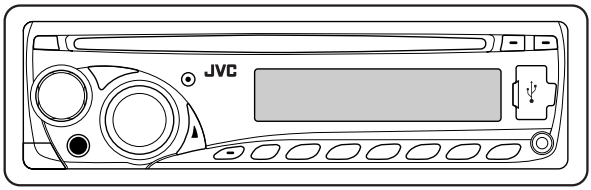
*5 *Coupez les fils des enceintes arrière du connecteur ISO de la voiture et connectez-les à l'amplificateur.*

ENGLISH
DEUTSCH
РУССКИЙ

CD RECEIVER
CD-RECEIVER
РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ

KD-G441/KD-G351





WMA MP3 R·D·S COMPACT disc DIGITAL AUDIO TEXT

For canceling the display demonstration, see page 5.
Zum Abbrechen der Displaydemonstration siehe Seite 5.
Информацию об отмене демонстрации функций дисплея см. на стр. 5.

For installation and connections, refer to the separate manual.
Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.
Указания по установке и выполнению соединений приводятся в отдельной инструкции.

INSTRUCTIONS
BEDIENUNGSANLEITUNG
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ

GET0500-006A
[EY]

ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学機器で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

This symbol is only valid in the European Union.

Information for Users on Disposal of Old Equipment

This symbol indicates that the product with this symbol should not be disposed as general household waste at its end-of-life. If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country and municipality. By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health.

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

For safety...

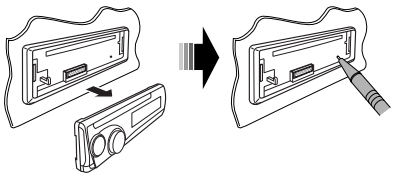
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

The control panel illustrations used for explanation in this manual is of KD-G441.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions, press M MODE again.

- Waiting for about 5 seconds without pressing any of these buttons will automatically cancels the functions mode.

KD-G441 is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.

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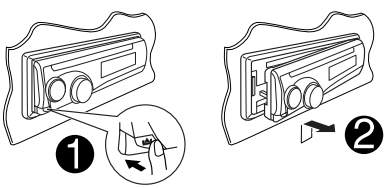
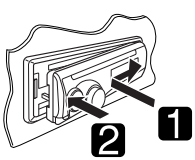
Detaching the control panel

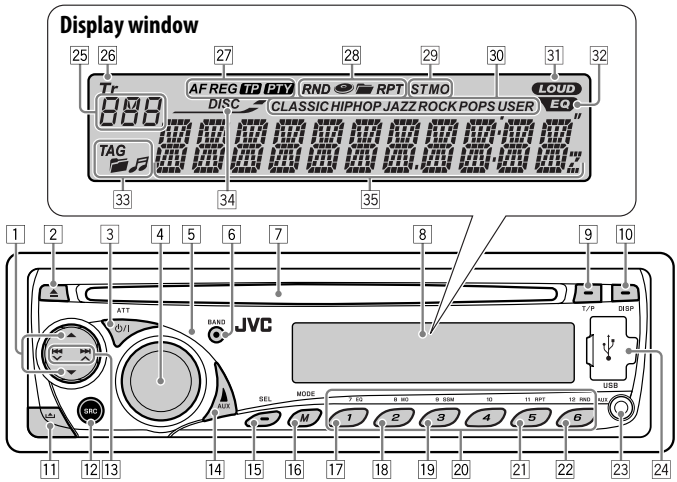


Attaching the control panel



Control panel — KD-G441/KD-G351

Parts identification

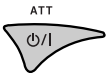


1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   - For KD-G441: You can control this unit with an optionally purchased remote controller. For details, see page 17.
   - DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. T/P (traffic programme/programme type) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. EQ (equalizer) button
18. MO (monaural) button
19. SSM (Strong-station Sequential Memory) button
20. Number buttons
21. RPT (repeat) button
22. RND (random) button
23. AUX (auxiliary) input jack
24. USB (Universal Serial Bus) input jack
25. Source display / Track number / Folder number / Time countdown indicator
26. Tr (track) indicator
27. RDS indicators—AF, REG, TP, PTY
28. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
29. Tuner reception indicators—ST (stereo), MO (monaural)
30. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
31. LOUD (loudness) indicator
32. EQ (equalizer) indicator
33. Disc information indicators— TAG (Tag information), (folder), (track/file)
34. DISC indicator
35. Main display

Getting started

Basic operations

1 Turn on the power.

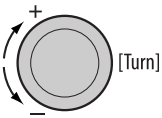


2

* *You cannot select these sources if they are not ready or not connected.*

3 For FM/AM tuner

4 Adjust the volume.

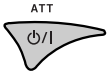
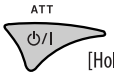


Volume level appears.

5 Adjust the sound as you want. (See page 13.)

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

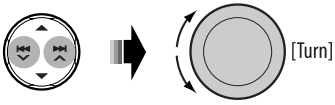
ENGLISH

Basic settings

- See also "General settings — PSM" on pages 14 – 16.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR", then adjust the hour.
Select "CLOCK MIN" (minute), then adjust the minute.
Select "24H/12H," then "24 HOUR" or "12 HOUR".

3 Finish the procedure.

To check the current clock time while the power is turned off

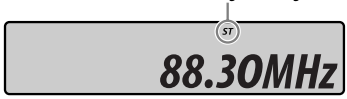
Clock time is shown on the display for about 5 seconds. See also page 14.

Radio operations

1 SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

2 BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



3 **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step 3 above...

1 [Hold]

2 Select a desired station frequency.

When an FM stereo broadcast is hard to receive

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE M

3 9 SSM 3 [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2

3 10 / 4 [Hold]

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 Select the preset station (1 – 6) you want.

or

To check the other information while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 9.

DISP → Frequency ↔ Clock

FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8, 9, and 15)
- Tracing the same programme automatically —Network-Tracking Reception (see page 9)
- Programme Search (see pages 9 and 15)

Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

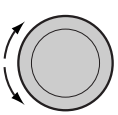
- To store your favorite programme types, see page 8.

1 T/P [Hold] — The last selected PTY code appears.

2 Select one of your favorite programme types.

or

Select one of the PTY codes (see page 9).



Continued on the next page

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3 Start searching for your favorite programme.

If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

1 Select a PTY code (see pages 7 and 8).

2 Select the preset number (1 – 6) you want to store into.

[Hold]

Ex.: When "ROCK M" is selected

3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.

4 Finish the procedure.

[Hold]

Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.
The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 15).

To activate TA Standby Reception

The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
  To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception

The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 15.
The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
  To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

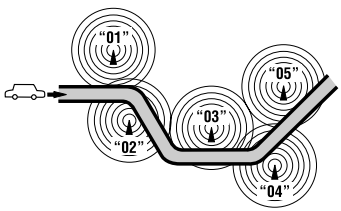
To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 15). The PTY indicator goes off.

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.
To change the Network-Tracking Reception setting, see "AF-REG" on page 15.

Programme A broadcasting on different frequency areas (01 – 05)



Automatic station selection— Programme Search

Usually when you press the number buttons, the preset station is tuned in.
If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 15.

To check the current clock time while listening to an FM RDS station

Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

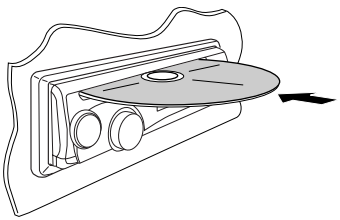
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc/USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

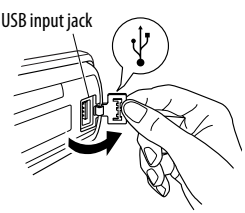
To stop play and eject the disc

- Press SRC to listen to another playback source.

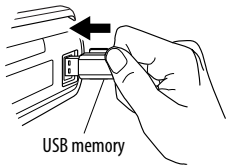
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



2



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 19 and 20.

To fast-forward or reverse the track

To go to the next or previous track

To go to the next or previous folder (for MP3/WMA)

To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1

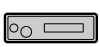
2

Each time you press the button, you can skip 10 tracks.

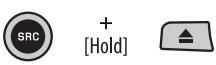
- After the last track, the first track will be selected and vice versa.

3

Prohibiting disc ejection



You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → B → Disc title/performer*1 **→ Track title***1 [♫] → (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 16)**

A → B → Album name/performer (folder name*2**)** [*TAG* 🗀] **→ Track title (file name***2**)** [*TAG* ♫] → (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → B → Folder name [🗀] **→ File name** [♫] → (back to the beginning)

A : The elapsed playing time with the current track number
B : Clock with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1

2 Select your desired playback mode.

■ **Repeat play**

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [🗀 *RPT*]
RPT OFF	: Cancels.

■ **Random play**

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND* 🗀]
ALL RND	: All tracks of the current disc or USB device. [*RND* 💿]
RND OFF	: Cancels.

* *Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

1 MODE (M)

2 7 EQ (1)

USER → ROCK → CLASSIC → JAZZ → HIP HOP → POPS → USER

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → MIDDLE → TREBLE → FADER → BALANCE → VOLUME → VOL ADJ → SUB.W*1 → LOUD → BASS

2 [Turn]

Indication, [Range]

BASS *2, [–06 to +06]
Adjust the bass.

MIDDLE *2 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *2, [–06 to +06]
Adjust the treble.

FADER *3, [R06 to F06]
Adjust the front and rear speaker balance.

BALANCE *4, [L06 to R06]
Adjust the left and right speaker balance.

LOUD *5 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W*1, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *For KD-G441: Displayed only when "L/O MODE" is set to "SUB.W" (see page 15).*

*2 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*3 *If you are using a two-speaker system, set the fader level to "00."*

*4 *This adjustment will not affect the subwoofer output.*

*5 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*6 *Depending on the amplifier gain control setting. (See page 16 for details.)*

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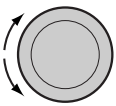
General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table below and on pages 15 and 16.

1 SEL [Hold]

2 **Select a PSM item.**

3 **Adjust the PSM item selected.**



4 **Repeat steps 2 and 3 to adjust other PSM items if necessary.**

5 **Finish the procedure.**

SEL

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [5].
	• **DEMO OFF**	: Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON**	: The clock time is shown on the display at all times when the power is turned off.
	• **CLOCK OFF**	: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].
CLOCK HOUR Hour adjustment	**0 – 23 (1 – 12)**	[Initial: 0 (0:00)], [5].
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (0:00)], [5].
24H/12H Time display mode	• **24 HOUR**	: See also page 5 for setting.
	• **12 HOUR**	
CLOCK ADJ *2 Clock adjustment	• **AUTO**	: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal.
	• **OFF**	: Cancels.

*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended that you select "CLOCK OFF" to save the car's battery.*

Indications	Item (__: Initial)	Selectable settings, [reference page]
AF-REG *2 Alternative frequency/ regionalization reception	• **AF**	: When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [9]. • The AF indicator lights up.
	• **AF-REG**	: When the currently received signals become weak, the unit switches to another station broadcasting the same programme. • The AF and REG indicators light up.
	• **AF OFF**	: Cancels.
PTY-STANDBY *2 PTY standby	**OFF, PTY codes**	Activates PTY Standby Reception with one of the PTY codes, [8, 9].
TA VOLUME *2 Traffic announcement volume	**VOLUME 00 – VOLUME 50** (or **VOLUME 00 – VOLUME 30**)*3	[Initial: VOLUME 15]
P-SEARCH *2 Programme search	• **ON**	: Activates Programme Search, [9].
	• **OFF**	: Cancels.
DIMMER Dimmer	• **ON**	: Dims the display and button illumination.
	• **OFF**	: Cancels.
TEL MUTING Telephone muting	• **MUTING 1/ MUTING 2**	: Select either one which mutes the sounds while using a cellular phone.
	• **MUTING OFF**	: Cancels.
SCROLL *4 Scroll	• **ONCE**	: Scrolls the displayed information once.
	• **AUTO**	: Repeats scrolling (at 5-second intervals).
	• **OFF**	: Cancels.
		• Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE *5 Line output mode	• **REAR**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	• **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).

*2 *Only for FM RDS stations.*

*3 *Depends on the amplifier gain control.*

*4 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*5 *For KD-G441.*

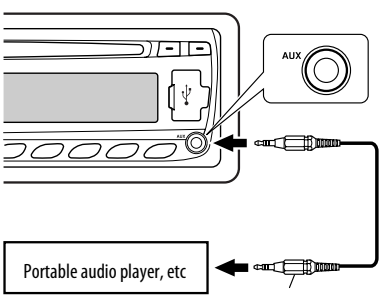
Continued on the next page

Indications	Item (__: Initial)	Selectable settings, [reference page]
SUB.W FREQ*6 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [12]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid them from damaging the speaker.) : VOLUME 00 – VOLUME 50
IF BAND Intermediate frequency band	• **AUTO** • **WIDE**	: Increases the tuner selectivity to reduce interference noise between close stations. (The stereo effect may be lost.) : Subject to the interference noise from adjacent stations, but the sound quality will not be degraded and the stereo effect will remain.

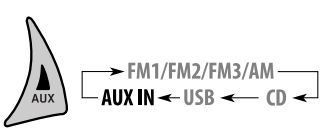
*6 *For KD-G441: Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.



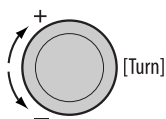
1



- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

2 **Turn on the connected component and start playing the source.**

3 **Adjust the volume.**



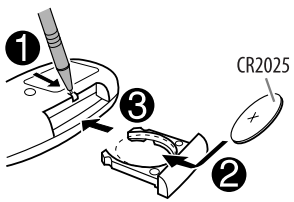
4 **Adjust the sound as you want. (See page 13.)**

To check the other information while listening to an external component

Remote controller — RM-RK50

KD-G441 can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.

Installing the lithium coin battery (CR2025)

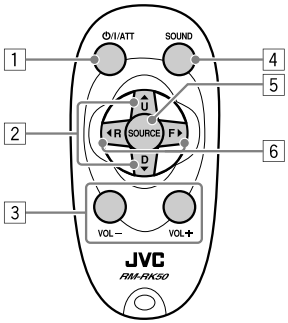


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically.
- If you want to know more about RDS, visit <http://www.rds.org.uk>.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.

- Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, “NO FILE” appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

Continued on the next page

- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
- Use a shielded USB cable of less than 1 m in length.

Changing the source

- If you change the source, playback also stops. Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

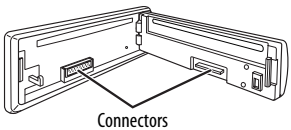
General settings—PSM

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

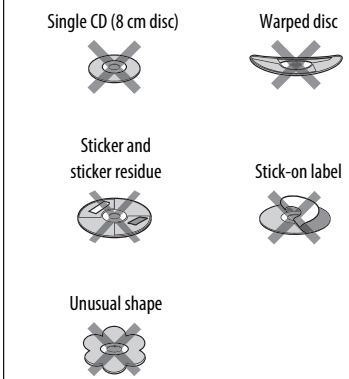
A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 11). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
	Tone Control Range:	Bass:	±12 dB at 60 Hz
		Middle:	±12 dB at 1 kHz
		Treble:	±12 dB at 10 kHz
	Frequency Response:		40 Hz to 20 000 Hz
	Signal to Noise Ratio:		70 dB
	Audio Output Level: (for KD-G441)	Line-Out Level/Impedance:	2.5 V/20 kΩ load (full scale)
		Output Impedance:	1 kΩ
		Subwoofer-Out Level/Impedance:	2.5 V /20 kΩ load (full scale)
	Other Terminals:		AUX (auxiliary) input jack, USB input jack, Steering wheel remote input (for KD-G441)

TUNER SECTION	Frequency Range:	FM:	87.5 MHz to 108.0 MHz
		AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
	FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	40 Hz to 15 000 Hz
		Stereo Separation:	30 dB
	MW Tuner:	Sensitivity/Selectivity:	20 µV/35 dB
	LW Tuner:	Sensitivity:	50 µV

CD PLAYER SECTION	Type:		Compact disc player
	Signal Detection System:	Non-contact optical pickup (semiconductor laser)	
	Number of Channels:		2 channels (stereo)
	Frequency Response:		5 Hz to 20 000 Hz
	Dynamic Range:		96 dB
	Signal-to-Noise Ratio:		98 dB
	Wow and Flutter:		Less than measurable limit
	MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate:	320 kbps
	WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate:	320 kbps

USB SECTION	USB Standard:	USB 1.1, USB 2.0
	Data Transfer Rate (Full Speed):	Max. 12 Mbps
	Storage:	Less than 8 GB (1 partition type)
	Compatible Device:	Mass storage class (except HDD)
	Compatible File System:	FAT 32/16/12
	Playable Audio Format:	MP3/WMA
	Max. Current:	500 mA

GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D):	Installation Size (approx.):	182 mm × 52 mm × 160 mm
		Panel Size (approx.):	188 mm × 58 mm × 13 mm
	Mass (approx.):		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?
Bitte setzen Sie Ihr Gerät zurück
Siehe Seite Zurücksetzen des Geräts

Затруднения при эксплуатации?
Пожалуйста, перезагрузите Ваше устройство
Для получения информации о перезагрузке Вашего устройства обратитесь на соответствующую страницу

Dear Customer,
This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Germany

Sehr geehrter Kunde, sehr geehrte Kundin,
dieses Gerät stimmt mit den gültigen europäischen Richtlinien und Normen bezüglich elektromagnetischer Verträglichkeit und elektrischer Sicherheit überein.

Die europäische Vertretung für die Victor Company of Japan, Limited ist:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Deutschland

Уважаемый клиент.
Данное устройство соответствует действительным Европейским директивам и стандартам по электромагнитной совместимости и электрической безопасности.

Представительство компании Victor Company of Japan, Limited в Европе:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Германия

EN, GE, RU

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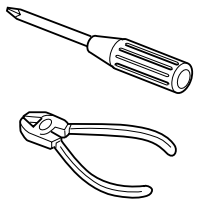
1107DTSMDTJEIN

KD-G441/KD-G351

Installation/Connection Manual
Einbau/Anschlußanleitung
Руководство по установке/подключению



GET0500-013A
[EY]

1107DTSMDTJEIN
EN, GE, RU
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

DEUTSCH

Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (–) Erdung ausgelegt**. *Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.*

РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобилнего специалиста JVC.

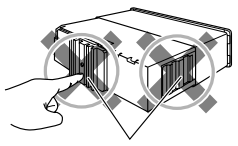
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4** Ω **to 8** Ω). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 16 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink
Abstrahlblech
Радиатор

WARNUNGEN

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird.

- **Sicherstellen erneut, daß das Gerät nach dem Einbau Chassis des Fahrzeugs geerdet wird.**

Hinweise:

- *Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.*
- *Es wird empfohlen, Lautsprecher mit einer Maximalleistung von mehr als 50 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von* **4** Ω **bis 8** Ω*). Wenn die Maximalleistung weniger als 50 W beträgt, stellen Sie „AMP GAIN" anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 16 der BEDIENUNGSANLEITUNG).*
- *Um Kurzschlüsse zu verhindern, die Klemmen der NICHT VERWENDETEN Leitungen mit Isolierband abdecken.*
- *Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.*

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

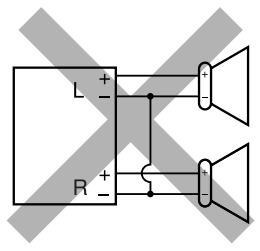
- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобилнего специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4** Ω **до 8** Ω). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 16).
- Для предотвращения коротких замыканий обмотайте терминалы НЕИСПОЛЬЗУЕМЫХ проводов изоляционной лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

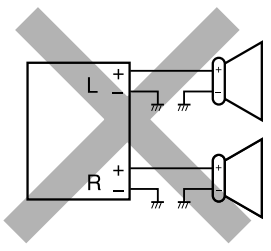
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



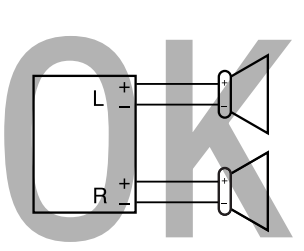
VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:

- **Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.**
- *VOR dem Anschließen der Lautsprecherleitungen des Spannunsgversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.*



ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.



Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

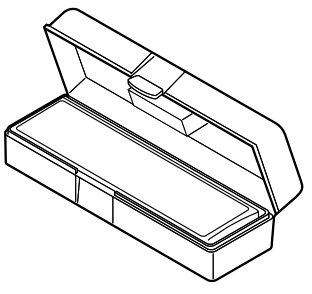
Teileliste für den Einbau und Anschluß

Die folgenden Teile werden zusammen mit diesem Gerät geliefert. Falls ein Artikel fehlt, wenden Sie sich sofort an Ihren JVC-Autoradiohändler.

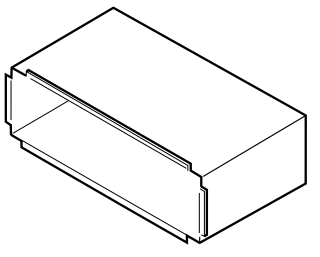
Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством. При отсутствии какого-либо элемента немедленно свяжитесь с дилером автомобильного специалиста JVC.

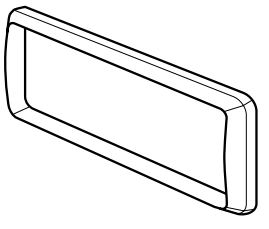
Ⓐ / Ⓑ
Hard case (only for KD-G441)/Control panel
Etui (nur für KD-G441)/Schalttafel
Жесткий футляр (только для KD-G441)/ панель управления



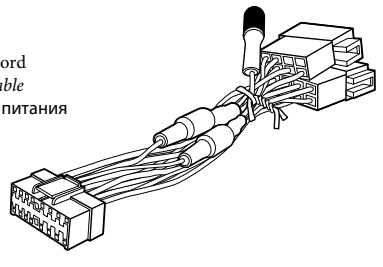
Ⓒ
Sleeve
Halterung
Муфта



Ⓓ
Trim plate
Frontrahmen
Декоративную панель



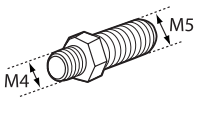
Ⓔ
Power cord
Stromkable
Кабель питания



Ⓕ
Washer (ø5)
Unterlegscheibe (ø5)
Шайба (њ5)

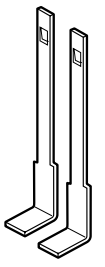
Ⓖ
Lock nut (M5)
Sicherungsmutter (M5)
Фиксирующая гайка (M5)

Ⓗ
Mounting bolt (M4 × 5 mm; M5 × 12,5 mm)
Befestigungsschraube (M4 × 5 mm; M5 × 12,5 mm)
Крепежный болт (M4 × 5 мм; M5 × 12,5 мм)



Ⓘ
Rubber cushion
Gummipuffer
Резиновый чехол

Ⓙ
Handles
Griffe
Рычаги



INSTALLATION (IN-DASH MOUNTING)

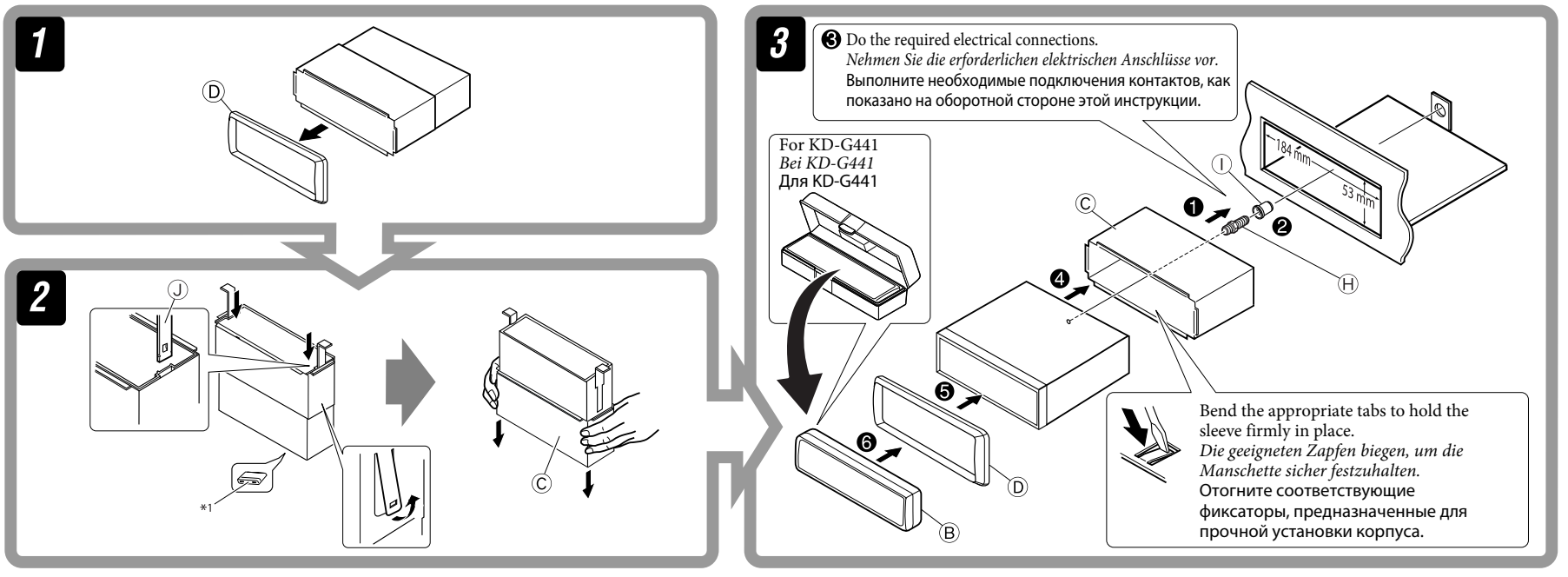
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

EINBAU (IM ARMATURENBRETT)

Die folgende Abbildung zeigt einen typischen Einbau. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.
- *Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.*

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобилнего специалиста JVC или в компанию, поставляющую соответствующие принадлежности.
- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.



Removing the unit

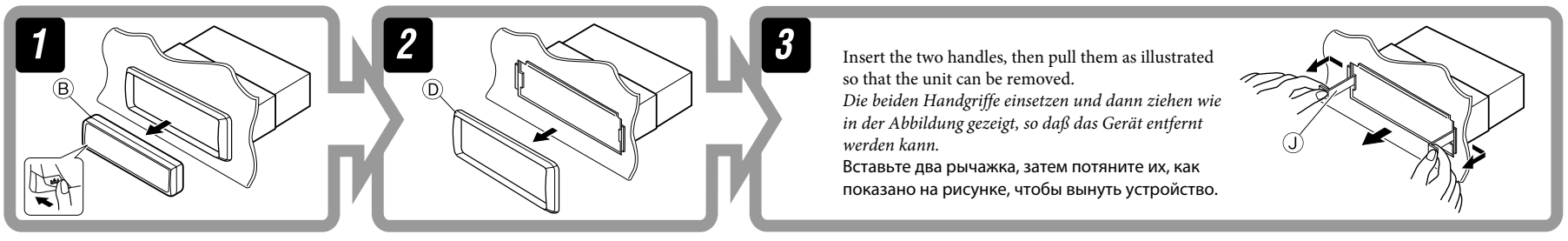
Before removing the unit, release the rear section.

Ausbau des Geräts

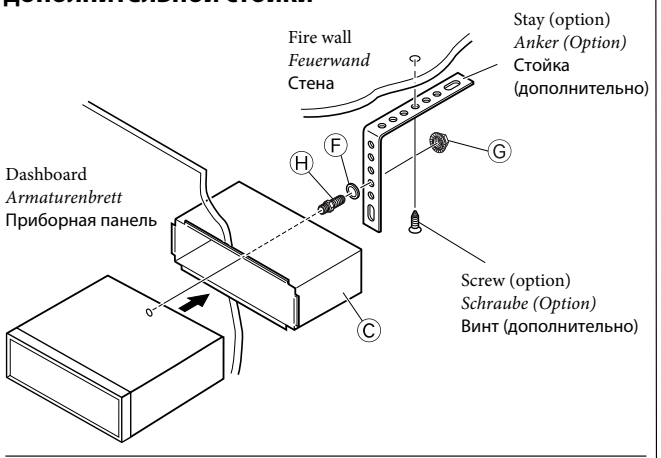
Vor dem Ausbau des Geräts den hinteren Teil freigeben.

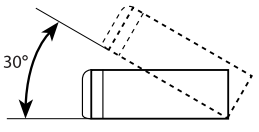
Удаление устройства

Перед удалением устройства освободите заднюю часть.


1
B
2
D
3
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Die beiden Handgriffe einsetzen und dann ziehen wie in der Abbildung gezeigt, so daß das Gerät entfernt werden kann.
Вставьте два рычажка, затем потяните их, как показано на рисунке, чтобы вынуть устройство.
J

When using the optional stay / Beim Verwenden der Anker-Option / При использовании дополнительной стойки

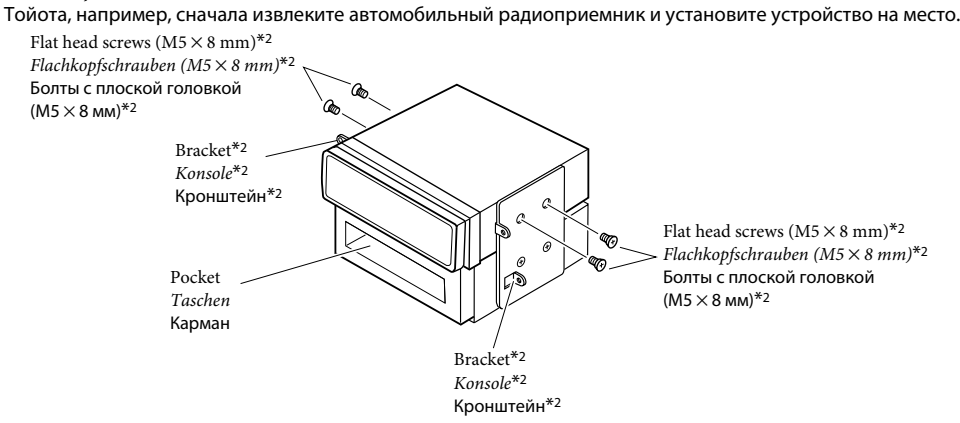




Install the unit at an angle of less than 30°.
Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf.
Установите устройство под углом менее 30°.

When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / При установке устройства без использования муфты

In a Toyota car for example, first remove the car radio and install the unit in its place.
Zum Beispiel in einem Toyota zuerst das Autoradio ausbauen und dann das Gerät an seinem Platz einbauen.
В автомобиле Тойота, например, сначала извлеките автомобильный радиоприемник и установите устройство на место.



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Hinweis : *Beim Anbringen des Gerät an der Konsole sicherstellen, daß 8 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.*
Примечание : При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 *Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.*
*2 *Wird nicht mit Gerät mitgeliefert.*

*1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.
*2 Не входит в комплект поставки.

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

FEHLERSUCHE

- **Die Sicherung brennt durch.**
* *Sind die roten und schwarzen Leitungen richtig angeschlossen?*
- **Stromversorgung kann nicht eingeschaltet werden.**
* *Ist die gelbe Leitung angeschlossen?*
- **Kein Ton aus den Lautsprechern.**
* *Ist die Lautsprecherausgangsleitung kurzgeschlossen?*
- **Ton verzerrt.**
* *Ist die Lautsprecherausgangsleitung geerdet?*
* *Sind die „–" Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?*
- **Störgeräusche im Klang.**
* *Ist die hintere Erdungsklemme mit kürzeren und dickeren Kabeln an das Fahrzeugchassis angeschlossen?*
- **Gerät wird heiß.**
* *Ist die Lautsprecherausgangsleitung geerdet?*
* *Sind die „–" Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?*
- **Dieser Receiver funktioniert überhaupt nicht.**
* *Haben Sie einen Reset am Receiver vorgenommen?*

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

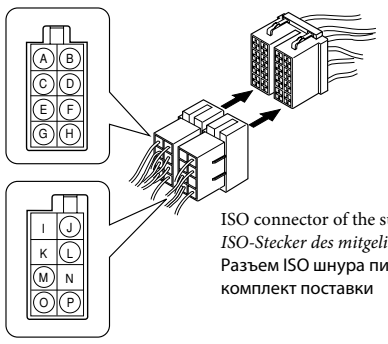
- **Сработал предохранитель.**
* Правильно ли подключены черный и красный провода?
- **Питание не включается.**
* Подключен ли желтый провод?
- **Звук не выводится через громкоговорители.**
* Нет ли короткого замыкания на кабеле выхода громкоговорителей?
- **Звук искажен.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?
- **Шум мешает звучанию.**
* Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнуров?
- **Устройство нагревается.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?
- **Приемник не работает.**
* Выполнена ли перенастройка приемника?

ENGLISH

ELECTRICAL CONNECTIONS

A If your car is equipped with the ISO connector / Wenn Ihr Fahrzeug mit dem ISO-Steckverbinder ausgestattet ist / Если автомобиль оснащен разъемом ISO

- Connect the ISO connectors as illustrated.
- *Schließen Sie die ISO-Steckverbinder an, wie in der Abbildung gezeigt.*
- Подключите разъемы ISO, как показано на рисунке.



From the car body
Von der Fahrzeugkarosserie
От корпуса автомобиля

ISO connector of the supplied power cord
ISO-Stecker des mitgelieferten Stromkabels
Разъем ISO шнура питания, входящего в комплект поставки

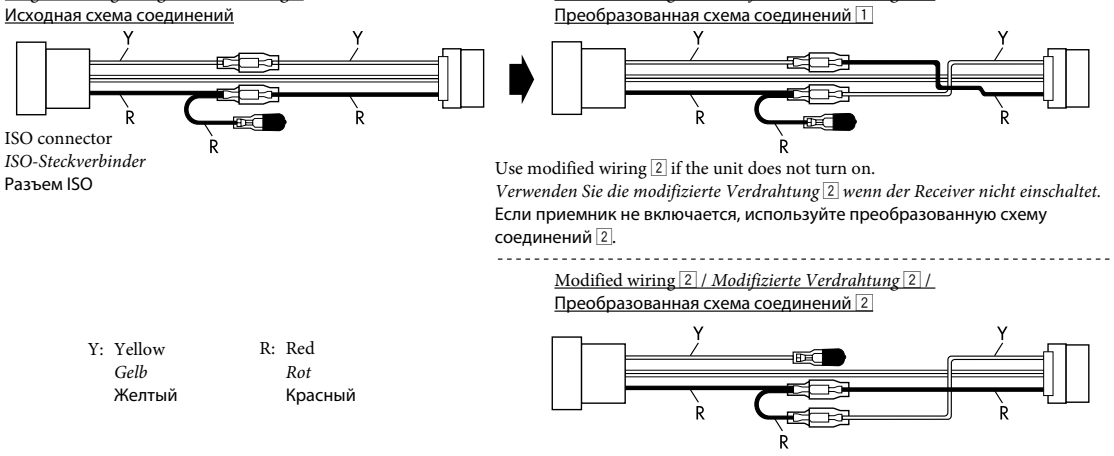
View from the lead side
Von der Kabelseite aus gesehen
Вид со стороны выводов

For some VW/Audi or Opel (Vauxhall) automobiles / Bei bestimmten VW-/Audi- or Opel-(Vauxhall-) Fahrzeugen / Для некоторых автомобилей VW/Audi или Opel (Vauxhall)

You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.

Es kann erforderlich sein, die Verdrahtung des mitgelieferten Stromkabels zu modifizieren, wie in der Abbildung gezeigt.
- *Wenden Sie sich vor dem Einbau dieses Receivers an Ihre Auto-Fachwerkstatt.*

Возможно, потребуется изменить схему соединений для прилагаемого шнура питания, как показано на рисунке.
- Перед установкой приемника обратитесь к авторизованному агенту по продажам автомобильных систем.


Original wiring / Original verdrahtung / Исходная схема соединений
Y
R
ISO connector
ISO-Steckverbinder
Разъем ISO
Modified wiring 1 / Modifizierte Verdrahtung 1 / Преобразованная схема соединений 1
Use modified wiring 2 if the unit does not turn on.
Verwenden Sie die modifizierte Verdrahtung 2 wenn der Receiver nicht einschaltet.
Если приемник не включается, используйте преобразованную схему соединений 2.
Modified wiring 2 / Modifizierte Verdrahtung 2 / Преобразованная схема соединений 2

Y: Yellow / *Gelb* / Желтый
R: Red / *Rot* / Красный

B Connections without using the ISO connector / Anschlüsse ohne Verwendung des ISO-Steckverbinders / Подключение без использования разъема ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

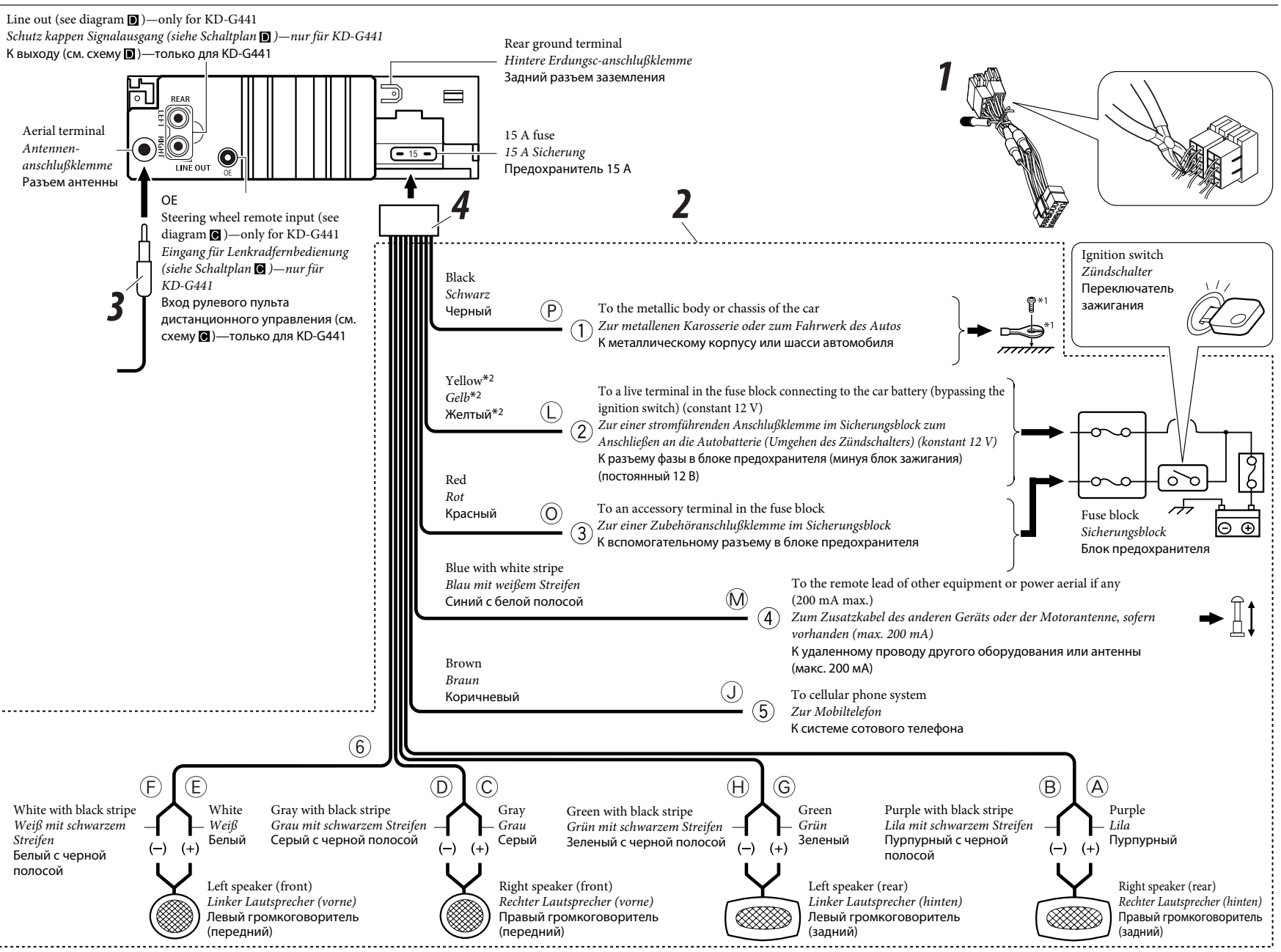
1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the unit.

Vor dem Anschließen: *Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen.*
Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.

1. *Schneiden Sie den ISO-Steckverbinder auf.*
2. *Die farbigen Adern des Stromkabels in der Reihenfolge anschließen, wie in der Abbildung unten gezeigt.*
3. *Das Antennenkabel anschließen.*
4. *Die Kabelbäume am Gerät anschließen.*

Перед началом подключений: Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства.
Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.

1. Обрежьте разъем ISO.
2. Подсоедините цветные провода шнура питания в указанном ниже порядке.
3. Подключите кабель антенны.
4. В последнюю очередь подключите электропроводку к устройству.



*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 *Wird nicht mit Gerät mitgeliefert.*
*2 *Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.*

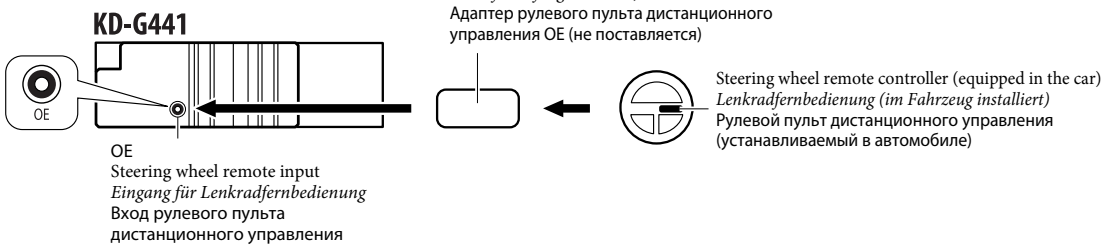
*1 Не входит в комплект поставки.
*2 Перед проверкой работы устройства подключите этот провод, иначе питание не включится.

C Connecting to the steering wheel remote controller (only for KD-G441) / Anschluß an die Lenkradfernbedienung (nur für KD-G441) / Подключение к рулевому пульту дистанционного управления (только для KD-G441)

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.

Wenn Ihr Fahrzeug mit einer Lenkradferndienung ausgestattet ist, können Sie damit diesen Receiver steuern. Hierfür ist ein für Ihr Fahrzeug passender Radio-Lenkrad-Fernbedienungsadaption von JVC (nicht im Lieferumfang enthalten) erforderlich. Für weitere Einzelheiten wenden Sie sich an Ihren JVC Autoradiohändler.

Если автомобиль оборудован рулевым пультом дистанционного управления, его можно использовать для управления данным устройством. Для этого необходим адаптер рулевого пульта дистанционного управления JVC OE (не поставляется), подходящий для Вашего автомобиля. За более подробной информацией обратитесь к поставщику автомобильных аудиосистем компании JVC.

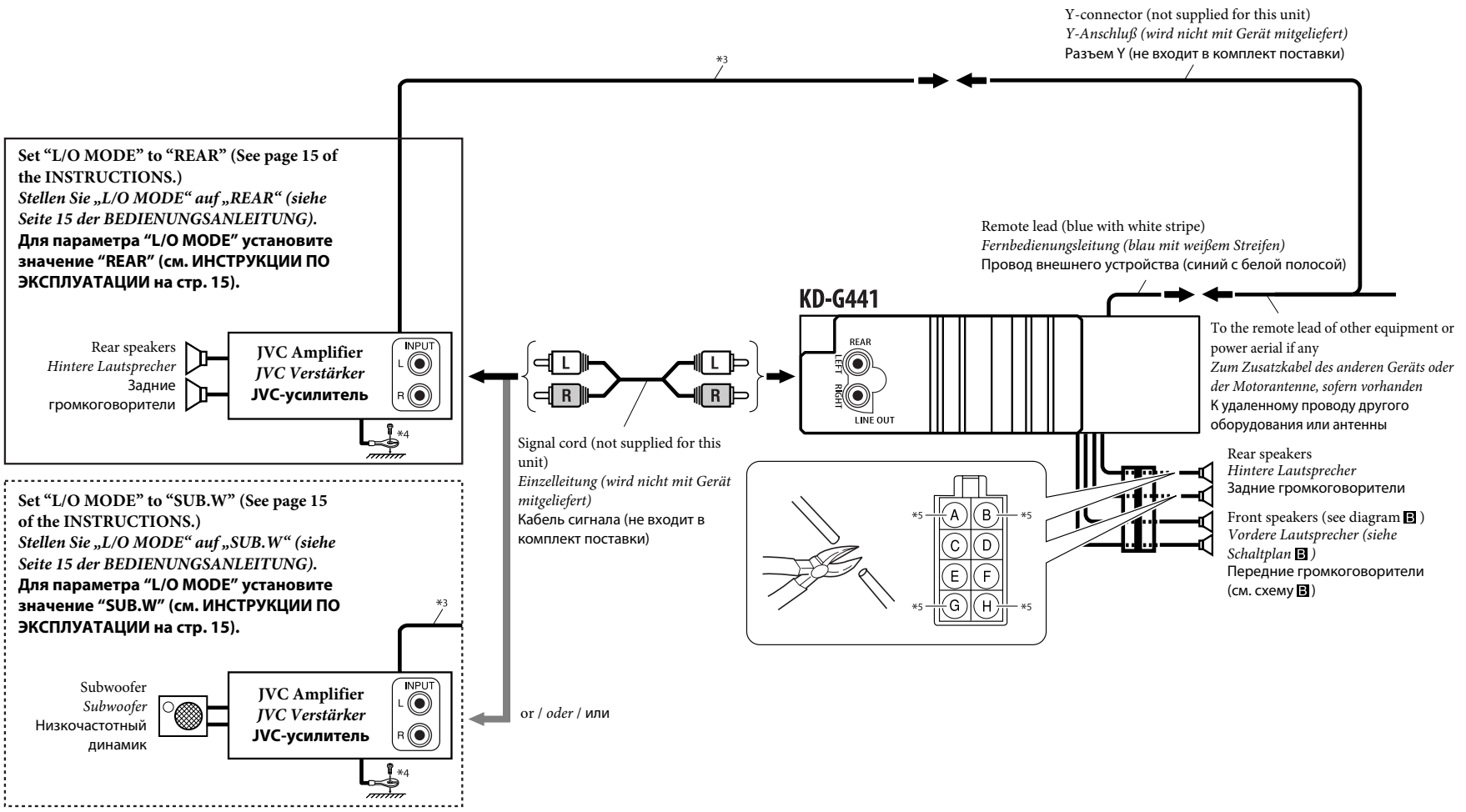

KD-G441
OE
OE remote adapter (not supplied)
Radio-Lenkrad-Fernbedienungsadaption (nicht im Lieferumfang enthalten)
Адаптер рулевого пульта дистанционного управления OE (не поставляется)
Steering wheel remote controller (equipped in the car)
Lenkradfernbedienung (im Fahrzeug installiert)
Рулевой пульт дистанционного управления (устанавливаемый в автомобиле)
OE
Steering wheel remote input
Eingang für Lenkradfernbedienung
Вход рулевого пульта дистанционного управления

D Connecting the external amplifier or subwoofer (only for KD-G441) / Anschließen des externen Verstärkers oder Subwoofers (nur für KD-G441) / Подключение внешнего усилителя или низкочастотного динамика (только для KD-G441)

You can connect an amplifier to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Sie können einen Verstärker anschließen, um Ihre Autostereoanlage zu erweitern.
- *Schließen Sie das Fernbedienungskabel (blau mit weißem Streifen) an das Fernbedienungskabel des anderen Geräts an, so daß es über dieses Gerät gesteuert werden kann.*
- **Die Lautsprecher von diesem Gerät abtrennen und am Verstärker anschließen. Die Lautsprecherleitungen dieses Geräts unbenutzt lassen.**

Для обновления автомобильной стереосистемы можно подключить усилитель.
- Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего устройства другого оборудования так, чтобы им можно было управлять с этого устройства.
- **Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользованными.**


Y-connector (not supplied for this unit)
Y-Anschluß (wird nicht mit Gerät mitgeliefert)
Разъем Y (не входит в комплект поставки)
*3
Set "L/O MODE" to "REAR" (See page 15 of the INSTRUCTIONS.)
Stellen Sie „L/O MODE" auf „REAR" (siehe Seite 15 der BEDIENUNGSANLEITUNG).
Для параметра "L/O MODE" установите значение "REAR" (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 15).
Remote lead (blue with white stripe)
Fernbedienungsleitung (blau mit weißem Streifen)
Провод внешнего устройства (синий с белой полосой)
KD-G441
REAR
LEFT
RIGHT
LINE OUT
To the remote lead of other equipment or power aerial if any
Zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden
К удаленному проводу другого оборудования или антенны
Rear speakers
Hintere Lautsprecher
Задние громкоговорители
JVC Amplifier
JVC Verstärker
JVC-усилитель
INPUT
L
R
*4
Signal cord (not supplied for this unit)
Einzelleitung (wird nicht mit Gerät mitgeliefert)
Кабель сигнала (не входит в комплект поставки)
Rear speakers
Hintere Lautsprecher
Задние громкоговорители
Front speakers (see diagram B)
Vordere Lautsprecher (siehe Schaltplan B)
Передние громкоговорители (см. схему B)
*5
A
B
C
D
E
F
G
H
Set "L/O MODE" to "SUB.W" (See page 15 of the INSTRUCTIONS.)
Stellen Sie „L/O MODE" auf „SUB.W" (siehe Seite 15 der BEDIENUNGSANLEITUNG).
Для параметра "L/O MODE" установите значение "SUB.W" (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 15).
Subwoofer
Subwoofer
Низкочастотный динамик
or / oder / или

*3 Remote lead
*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.

*3 *Fernbedienungsleitung*
*4 *Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kontaktstelle darf nicht lackiert sein (sollte die Kontaktstelle lackiert sein, entfernen Sie den Lack der Kontaktstelle, bevor Sie den Leiter befestigen). Wenn der Erdungsleiter nicht ordnungsgemäß angeschlossen wird, kann dieses Gerät beschädigt werden.*
*5 *Schneiden Sie die hinteren Lautsprecherkabel des ISO-Steckverbinders des Fahrzeugs ab, und schließen diese an den Verstärker an.*

*3 Провод внешнего устройства
*4 Плотно прикрепите заземляющий провод к металлическому кузову или шасси автомобиля—в месте, не покрытом краской (если оно покрыто краской, удалите краску перед тем, как прикреплять провод). Невыполнение этого требования может привести к повреждению данного устройства.
*5 Отрежьте провода задних громкоговорителей разъема ISO и подсоедините их к усилителю.

JVC

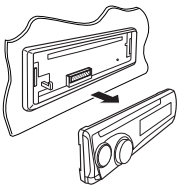
ENGLISH

РУССКИЙ

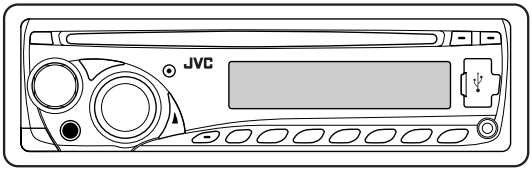
УКРАЇНА

CD RECEIVER
РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ
ПРИЙМАЧ З ПРОГРАВАЧЕМ КОМПАКТ-ДИСКІВ

KD-G447/KD-G357



WMA MP3



В соответствии с Законом Российской Федерации "О защите прав потребителей" срок службы (годности) данного товара "по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде" составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

Срок службы (годности), кроме срока хранения дополнительных косметических материалов, упомянутых в предыдущих двух пунктах, не затрагивает никаких других прав потребителя, в частности, гарантийного свидетельства JVC, которое он может получить в соответствии с законом о правах потребителя или других законов, связанных с ним.

For canceling the display demonstration, see page 5.
Информацию об отмене демонстрации функций дисплея см. на стр. 5.
Інформацію щодо відміни демонстрації функцій дисплею див. на стор. 5.

For installation and connections, refer to the separate manual.
Указания по установке и выполнению соединений приводятся в отдельной инструкции.
Вказівки по встановленню та виконанню підключень наведені у окремій інструкції.

INSTRUCTIONS
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ
ІНСТРУКЦІЇ

GET0543-001A
[EE]

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION**: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学機器で直接見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

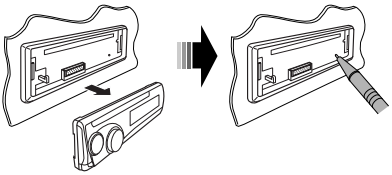
For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions, press M MODE again.

- Waiting for about 5 seconds without pressing any of these buttons will automatically cancels the functions mode.

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FM RDS operations 7
Searching for your favorite FM RDS programme ... 7
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Playing from a USB device 10
Sound adjustments 13
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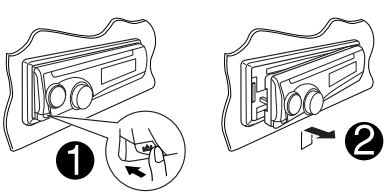
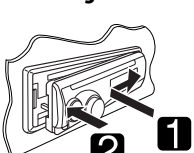
Detaching the control panel

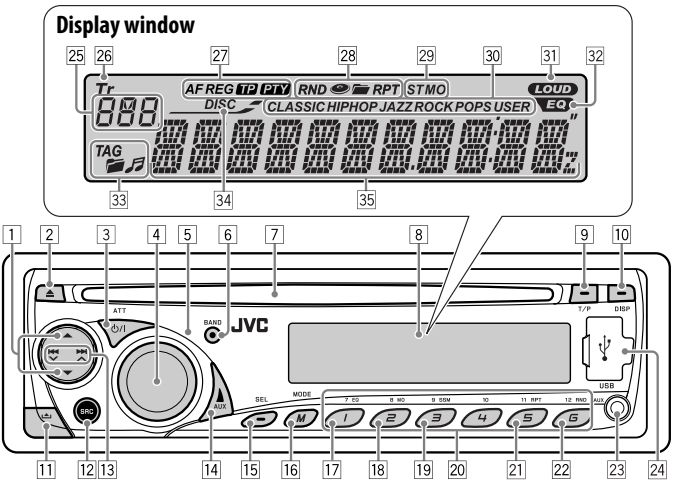


Attaching the control panel



Control panel — KD-G447/KD-G357

Parts identification

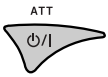


1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   - For KD-G447: You can control this unit with an optionally purchased remote controller. For details, see page 17.
   - DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. T/P (traffic programme/programme type) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. EQ (equalizer) button
18. MO (monaural) button
19. SSM (Strong-station Sequential Memory) button
20. Number buttons
21. RPT (repeat) button
22. RND (random) button
23. AUX (auxiliary) input jack
24. USB (Universal Serial Bus) input jack
25. Source display / Track number / Folder number / Time countdown indicator
26. Tr (track) indicator
27. RDS indicators—AF, REG, TP, PTY
28. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
29. Tuner reception indicators—ST (stereo), MO (monaural)
30. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
31. LOUD (loudness) indicator
32. EQ (equalizer) indicator
33. Disc information indicators— TAG (Tag information), (folder), (track/file)
34. DISC indicator
35. Main display

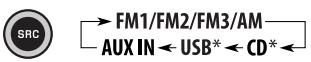
Getting started

Basic operations

1 Turn on the power.



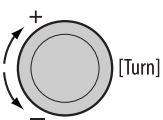
2



* *You cannot select these sources if they are not ready or not connected.*

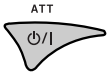
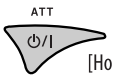
3 For FM/AM tuner

4 Adjust the volume.



Volume level appears.

5 Adjust the sound as you want. (See page 13.)

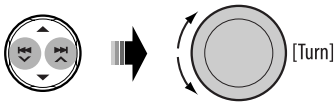
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 14 – 16.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR", then adjust the hour.
Select "CLOCK MIN" (minute), then adjust the minute.
Select "24H/12H," then "24 HOUR" or "12 HOUR".

3 Finish the procedure.

To check the current clock time while the power is turned off

Clock time is shown on the display for about 5 seconds. See also page 14.

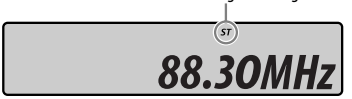
ENGLISH

Radio operations

1 SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

2 BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



3 **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

Note:
FM1 and FM2: 87.5 MHz – 108.0 MHz
FM3: 65.00 MHz – 74.00 MHz

To tune in to a station manually

In step 3 above...

1 [Hold]

2 Select a desired station frequency.

When an FM stereo broadcast is hard to receive

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE (M)

3 9 SSM (3) [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2

3 10 4 [Hold]

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 Select the preset station (1 – 6) you want.

or

To check the other information while listening to an FM (non-RDS) or AM station

- For FM RDS stations, see page 9.

DISP → **Frequency ↔ Clock**

FM RDS operations

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals.

By receiving the RDS data, this unit can do the following:

- Programme Type (PTY) Search (see the following)
- TA (Traffic Announcement) and PTY Standby Receptions (see pages 8, 9, and 15)
- Tracing the same programme automatically —Network-Tracking Reception (see page 9)
- Programme Search (see pages 9 and 15)

Searching for your favorite FM RDS programme

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

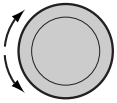
- To store your favorite programme types, see page 8.

1 T/P [Hold] — The last selected PTY code appears.

2 Select one of your favorite programme types.

or

Select one of the PTY codes (see page 9).

 [Turn]

Continued on the next page

3 Start searching for your favorite programme.

If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Storing your favorite programme types

You can store six favorite programme types.

Preset programme types in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

1 Select a PTY code (see pages 7 and 8).

2 Select the preset number (1 – 6) you want to store into.

[Hold]

Ex.: When "ROCK M" is selected

3 Repeat steps 1 and 2 to store other PTY codes into other preset numbers.

4 Finish the procedure.

[Hold]

Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.
The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 15).

To activate TA Standby Reception

The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception.)
  To activate TA Standby Reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception

The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 15.
The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
  To activate PTY Standby Reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

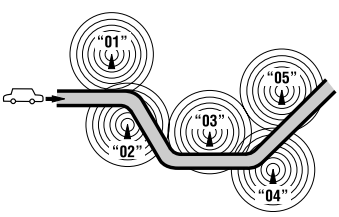
To deactivate the PTY Standby Reception, select "OFF" for the PTY code (see page 15). The PTY indicator goes off.

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.
To change the Network-Tracking Reception setting, see "AF-REG" on page 15.

Programme A broadcasting on different frequency areas (01 – 05)



Automatic station selection— Programme Search

Usually when you press the number buttons, the preset station is tuned in.
If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 15.

To check the current clock time while listening to an FM RDS station

Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)

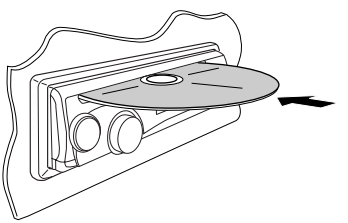
PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc/USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

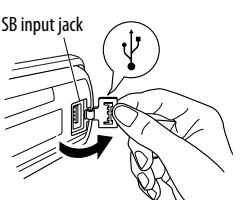
To stop play and eject the disc

- Press SRC to listen to another playback source.

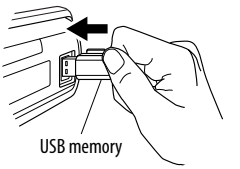
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



2



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 19 and 20.

To fast-forward or reverse the track

To go to the next or previous track

To go to the next or previous folder (for MP3/WMA)

To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder.

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

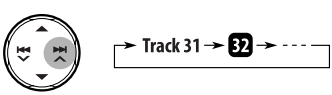
1

2

Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3



Prohibiting disc ejection

You can lock a disc in the loading slot.

To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → B → Disc title/performer*1 **→ Track title***1 [♫] → (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 16)**

A → B → Album name/performer (folder name*2**)** [*TAG* 🗀] **→ Track title (file name***2**)** [*TAG* ♫] → (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → B → Folder name [🗀] **→ File name** [♫] → (back to the beginning)

A : The elapsed playing time with the current track number
B : Clock with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1

2 Select your desired playback mode.

■ **Repeat play**

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT*	: All tracks of the current folder. [🗀 *RPT*]
RPT OFF	: Cancels.

■ **Random play**

Mode	Plays at random
FOLDER RND*	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND* 🗀]
ALL RND	: All tracks of the current disc or USB device. [*RND* 💿]
RND OFF	: Cancels.

* *Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

1 MODE

2 7 EQ

USER → ROCK → CLASSIC → POPS → HIP HOP → JAZZ

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → MIDDLE → TREBLE → FADER → VOLUME → VOL ADJ → LOUD → BALANCE

2 [Turn]

Indication, [Range]

BASS *1, [–06 to +06]
Adjust the bass.

MIDDLE *1 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *1, [–06 to +06]
Adjust the treble.

FADER *2, [R06 to F06]
Adjust the front and rear speaker balance.

BALANCE, [L06 to R06]
Adjust the left and right speaker balance.

LOUD *3 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *4
Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*4 *Depending on the amplifier gain control setting. (See page 16 for details.)*

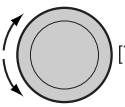
General settings — PSM

You can change PSM (Preferred Setting Mode) items listed in the table below and on pages 15 and 16.

1 SEL [Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.



4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

SEL

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [5].
	• **DEMO OFF**	: Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON**	: The clock time is shown on the display at all times when the power is turned off.
	• **CLOCK OFF**	: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].
CLOCK HOUR Hour adjustment	**0 – 23 (1 – 12)**	[Initial: 0 (0:00)], [5].
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (0:00)], [5].
24H/12H Time display mode	• **24 HOUR**	: See also page 5 for setting.
	• **12 HOUR**	

*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended that you select "CLOCK OFF" to save the car's battery.*

Indications	Item (__: Initial)	Selectable settings, [reference page]
CLOCK ADJ *2 Clock adjustment	• **AUTO**	: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal.
	• **OFF**	: Cancels.
AF-REG *2 Alternative frequency/ regionalization reception	• **AF**	: When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [9]. • The AF indicator lights up.
	• **AF-REG**	: When the currently received signals become weak, the unit switches to another station broadcasting the same programme. • The AF and REG indicators light up.
	• **AF OFF**	: Cancels.
PTY-STANDBY *2 PTY standby	**OFF**, **PTY codes**	Activates PTY Standby Reception with one of the PTY codes, [8, 9].
TA VOLUME *2 Traffic announcement volume	**VOLUME 00 – VOLUME 50** (or **VOLUME 00 – VOLUME 30**)*3	[Initial: VOLUME 15]
P-SEARCH *2 Programme search	• **ON**	: Activates Programme Search, [9].
	• **OFF**	: Cancels.
DIMMER Dimmer	• **ON**	: Dims the display and button illumination.
	• **OFF**	: Cancels.
TEL MUTING Telephone muting	• **MUTING 1/ MUTING 2**	: Select either one which mutes the sounds while using a cellular phone.
	• **MUTING OFF**	: Cancels.
SCROLL *4 Scroll	• **ONCE**	: Scrolls the displayed information once.
	• **AUTO**	: Repeats scrolling (at 5-second intervals).
	• **OFF**	: Cancels.
		• Pressing DISP for more than one second can scroll the display regardless of the setting.

*2 *Only for FM RDS stations.*

*3 *Depends on the amplifier gain control.*

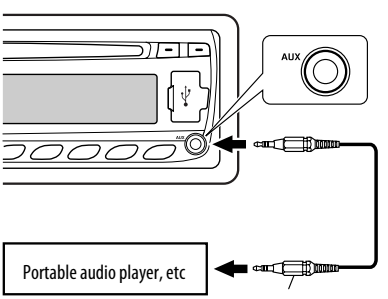
*4 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

Continued on the next page

Indications	Item (__: Initial)	Selectable settings, [reference page]
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [12]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid them from damaging the speaker.) : VOLUME 00 – VOLUME 50
IF BAND Intermediate frequency band	• **AUTO** • **WIDE**	: Increases the tuner selectivity to reduce interference noise between close stations. (The stereo effect may be lost.) : Subject to the interference noise from adjacent stations, but the sound quality will not be degraded and the stereo effect will remain.

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

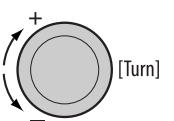


1

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

2 **Turn on the connected component and start playing the source.**

3 **Adjust the volume.**



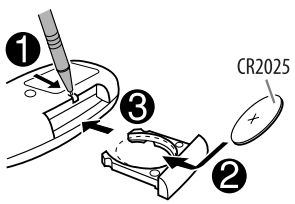
4 **Adjust the sound as you want. (See page 13.)**

To check the other information while listening to an external component

Remote controller — RM-RK50

KD-G447 can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.

Installing the lithium coin battery (CR2025)

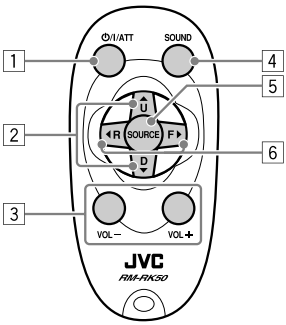


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically.
- If you want to know more about RDS, visit <http://www.rds.org.uk>.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.

- Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, “NO FILE” appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

Continued on the next page

- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops. Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

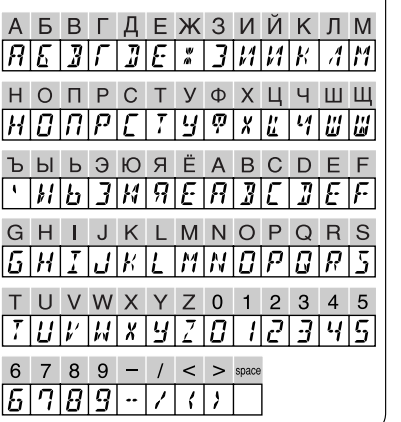
- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Available characters on the display

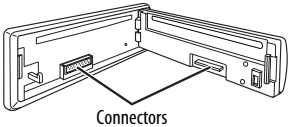
Available characters
Display indications



Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

Center holder

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)

Warped disc

Sticker and sticker residue

Stick-on label

Unusual shape

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 11). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display Roman alphabets (upper case), Cyrillic alphabets (upper case), numbers, and a limited number of symbols (see page 20).
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display Roman alphabets (upper case), Cyrillic alphabets (upper case), numbers, and a limited number of symbols (see page 20).
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
	Tone Control Range:	Bass:	±12 dB at 60 Hz
		Middle:	±12 dB at 1 kHz
		Treble:	±12 dB at 10 kHz
	Frequency Response:		40 Hz to 20 000 Hz
	Signal to Noise Ratio:		70 dB
	Other Terminals:		AUX (auxiliary) input jack, USB input jack

TUNER SECTION	Frequency Range:	FM1/FM2:	87.5 MHz to 108.0 MHz
		FM3:	65.00 MHz to 74.00 MHZ
		AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
	FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	40 Hz to 15 000 Hz
		Stereo Separation:	30 dB
	MW Tuner:	Sensitivity/Selectivity:	20 µV/35 dB
	LW Tuner:	Sensitivity:	50 µV

CD PLAYER SECTION	Type:		Compact disc player
	Signal Detection System:	Non-contact optical pickup (semiconductor laser)	
	Number of Channels:		2 channels (stereo)
	Frequency Response:		5 Hz to 20 000 Hz
	Dynamic Range:		96 dB
	Signal-to-Noise Ratio:		98 dB
	Wow and Flutter:		Less than measurable limit
	MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate:	320 kbps
	WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate:	320 kbps

USB SECTION	USB Standard:	USB 1.1, USB 2.0
	Data Transfer Rate (Full Speed):	Max. 12 Mbps
	Storage:	Less than 8 GB (1 partition type)
	Compatible Device:	Mass storage class (except HDD)
	Compatible File System:	FAT 32/16/12
	Playable Audio Format:	MP3/WMA
	Max. Current:	500 mA

GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D):	Installation Size (approx.):	182 mm × 52 mm × 160 mm
		Panel Size (approx.):	188 mm × 58 mm × 13 mm
	Mass (approx.):		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Затруднения при эксплуатации?

Пожалуйста, перезагрузите Ваше устройство

Для получения информации о перезагрузке Вашего устройства обратитесь на соответствующую страницу

Маєте ПРОБЛЕМУ з функціонуванням?

Повторно налаштуйте систему

Див. сторінку “Як повторно налаштувати пристрій”

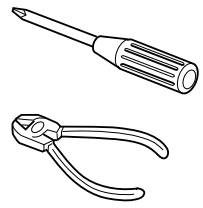
JVC

Віктор Компані оф Джепен Лімітед
12, 3-чоме, Морійя-чо, Канагава-ку, Йокогама, Канагава 221-8520, Японія

EN, RU, UK
© 2007 Victor Company of Japan, Limited
1107DTSMDTJEIN

KD-G447/KD-G357

Installation/Connection Manual
Руководство по установке/подключению
Керівництво зі встановлення та з'єднання



GET0543-002A
[EE]

1107DTSMDTJEIN
EN, RU, UK
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

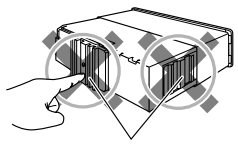
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4** Ω **to 8** Ω). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 16 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink
Радиатор

РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобилнего специалиста JVC.

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобилнего специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4** Ω **до 8** Ω). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 16).
- Для предотвращения коротких замыканий обмотайте терминалы НЕИСПОЛЬЗУЕМЫХ проводов изоляционной лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

УКРАЇНА

Цей пристрій призначений для роботи під напругою **12 В постійного струму; з електричними системами, що мають заземлення ВІД'ЄМНОГО полюсу**. Якщо ваше авто не оснащене такою системою, потрібно використовувати інвертор напруги, який можна придбати у дилерів устаткування JVC для автомобілів.

ПОПЕРЕДЖЕННЯ

Для запобігання коротким замиканням рекомендується перед встановленням пристрою відключити від'ємну клему акумулятора та виконати усі електричні з'єднання.

- **Переконайтеся у тому, що після закінчення встановлення пристрою, виконано його заземлення на шасі авто.**

Примітки:

- Заміняти запобіжник можна тільки запобіжником із вказаними у специфікації номінальними характеристиками. Якщо запобіжники часто виходять з ладу, проконсультуйтеся з дилером устаткування JVC для автомобілів.
- Рекомендується підключати гучномовці з максимальною потужністю, що перевищує 50 Вт (як для розташованих спереду, так і для тих, що розміщуються позаду. Рекомендований діапазон опору: від 4 до 8 Ом). У разі, якщо потужність є меншою чим 50 Вт, змініть налаштування "AMP GAIN" (коефіцієнт підсилення) задля запобігання пошкодженню гучномовців (див. стор. 16 "ІНСТРУКЦІЇ").
- Для запобігання коротким замиканням, заізолюйте клеми провідника, ЩО НЕ ВИКОРИСТОВУЄТЬСЯ, ізоляційною стрічкою.
- По закінчені роботи радіатор стає надто гарячим. Будьте обережні, не торкайтесь його при видалені цього пристрою.

Parts list for installation and connection

The following parts are provided for this unit.
If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

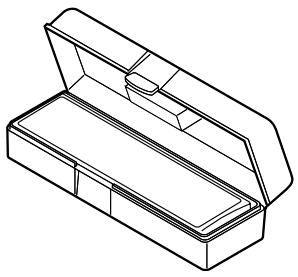
Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством.
При отсутствии какого-либо элемента немедленно свяжитесь с дилером автомобильного специалиста JVC.

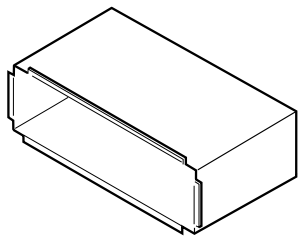
Перелік деталей для встановлення та з'єднання

У комплекті з цим пристроєм надаються такі деталі.
Якщо будь-яка з цих деталей відсутня, негайно зверніться до дилера устаткування JVC для автомобілів.

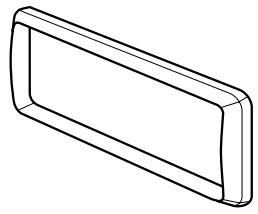
Ⓐ / Ⓑ
Hard case/Control panel
Жесткий футляр/панель управления
Жорсткий футляр/Панель управління



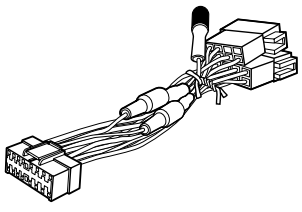
Ⓒ
Sleeve
Муфта
Екран



Ⓓ
Trim plate
Декоративную панель
Знімна пластина



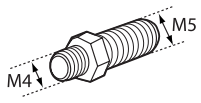
Ⓔ
Power cord
Кабель питания
Шнур живлення



Ⓕ
Washer (ø5)
Шайба (њ5)
Шайба (ø5)

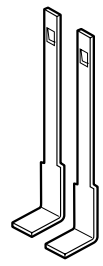
Ⓖ
Lock nut (M5)
Фиксирующая гайка (M5)
Стопорна гайка (M5)

Ⓗ
Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
Крепежный болт (M4 × 5 мм; M5 × 12.5 мм)
Монтажний болт (M4 × 5 мм; M5 × 12.5 мм)



Ⓘ
Rubber cushion
Резиновый чехол
Гумова прокладка

Ⓙ
Handles
Рычаги
Ручки



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

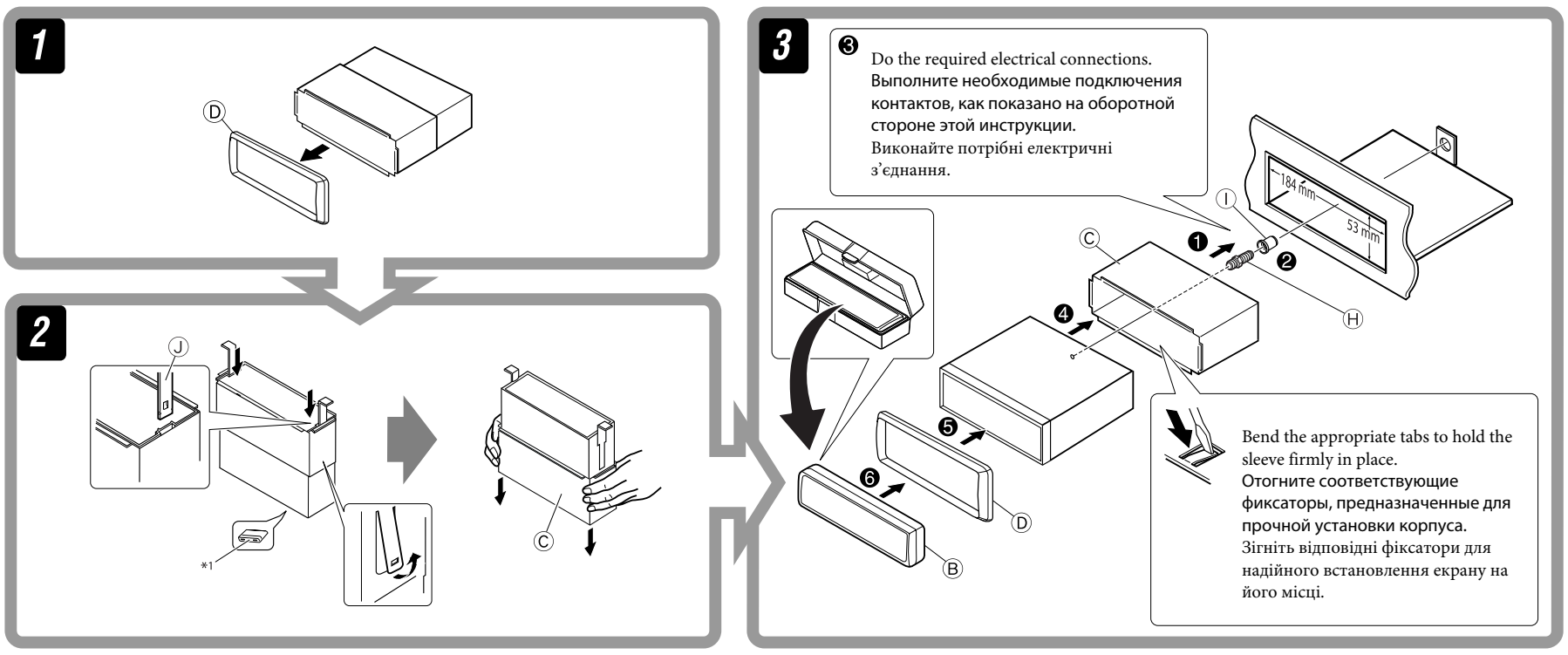
На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобилнего специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.

ВСТАНОВЛЕННЯ (МОНТАЖ НА ПРИЛАДОВУ ПАНЕЛЬ)

Наведена нижче ілюстрація демонструє типовий процес встановлення. У разі будь яких запитань або потреби у інформації щодо набору інструментів та спорядження, проконсультуйтеся з дилером устаткування JVC для автомобілів або з компанією, що постачає набір інструментів та спорядження.

- Якщо ви не впевнені щодо правильності встановлення цього пристрою, залучіть до його встановлення кваліфікованого спеціаліста.



Removing the unit

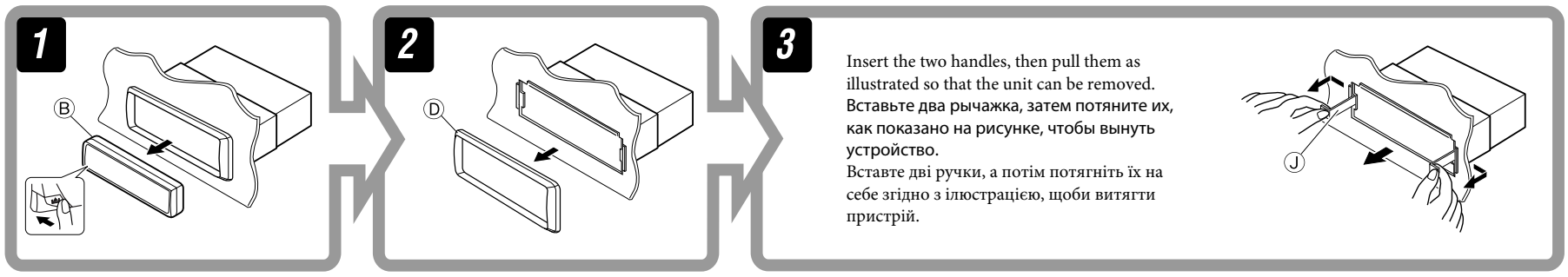
Before removing the unit, release the rear section.

Удаление устройства

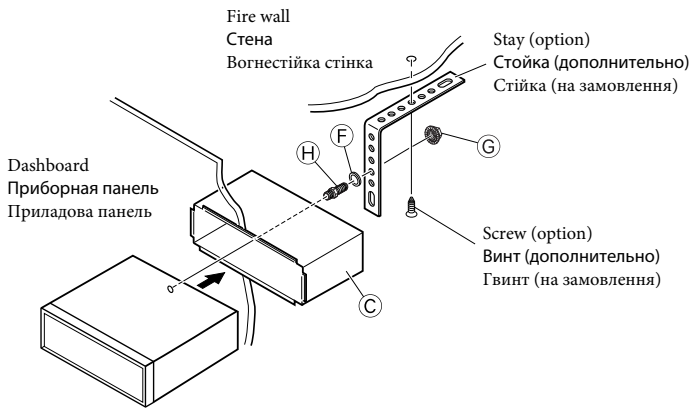
Перед удалением устройства освободите заднюю часть.

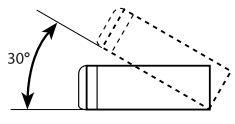
Видалення пристрою

Перед видаленням пристрою, ослабте кріплення тильної частини.


1
B
2
D
3
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Вставьте два рычажка, затем потяните их, как показано на рисунке, чтобы вынуть устройство.
Вставте дві ручки, а потім потягніть їх на себе згідно з ілюстрацією, щоби витягти пристрій.
J

When using the optional stay / При использовании дополнительной стойки / Використання додаткової стійки (постачається за окремим замовленням)

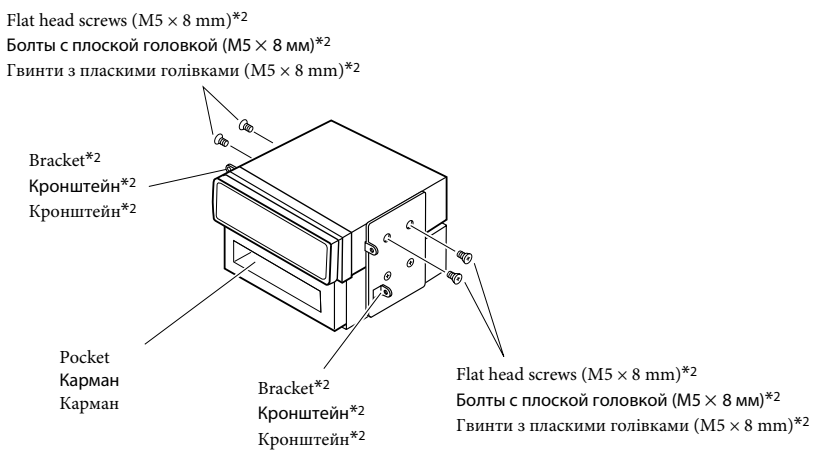




Install the unit at an angle of less than 30˚.
Установите устройство под углом менее 30°.
Встановіть пристрій під кутом меншим, ніж 30˚.

When installing the unit without using the sleeve / При установке устройства без использования муфты / Встановлення пристрою без екрану

In a Toyota car for example, first remove the car radio and install the unit in its place.
В автомобиле Тойота, например, сначала извлеките автомобильный радиоприемник и установите устройство на место.
У таких авто, як, наприклад, "Тойота", спершу зніміть радіоприймач, а на його місце встановіть пристрій.



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Примечание : При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

Примітка : Встановлюючи пристрій на монтажні кронштейни, переконайтеся, що застосовуються гвинти довжиною 8 мм. Якщо гвинти довші, вони можуть пошкодити пристрій.

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.
*2 Не входят в комплект.

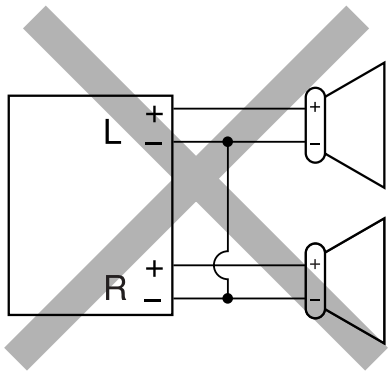
*1 При встановленні пристрою, будьте обережні, не пошкодьте запобіжник, розташований у тильній частині.
*2 Не входить до комплекту постачання цього пристрою.

ENGLISH

ELECTRICAL CONNECTIONS

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

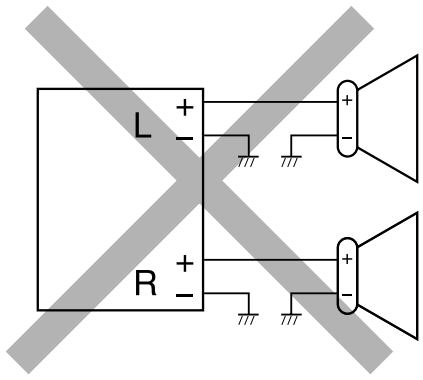


РУССКИЙ

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.

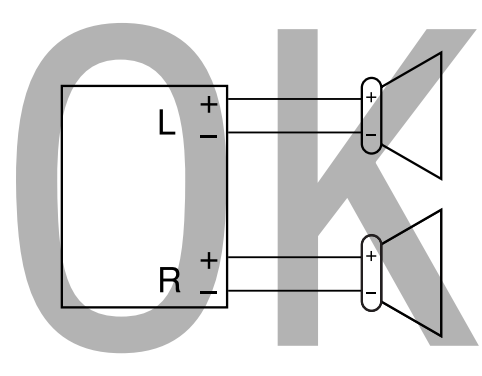


УКРАЇНА

ЕЛЕКТРИЧНІ З'ЄДНАННЯ

ЗАСТЕРЕЖЕННЯ щодо приєднання джерела живлення та гучномовців:

- **НЕ з'єднуйте провідники живлення гучномовців з акумулятором. Невиконання такої вимоги призведе до тяжкого ушкодження пристрою.**
- ПЕРЕД тим, як з'єднати провідники живлення з гучномовцями, перевірте схему з'єднання гучномовців вашого авто.

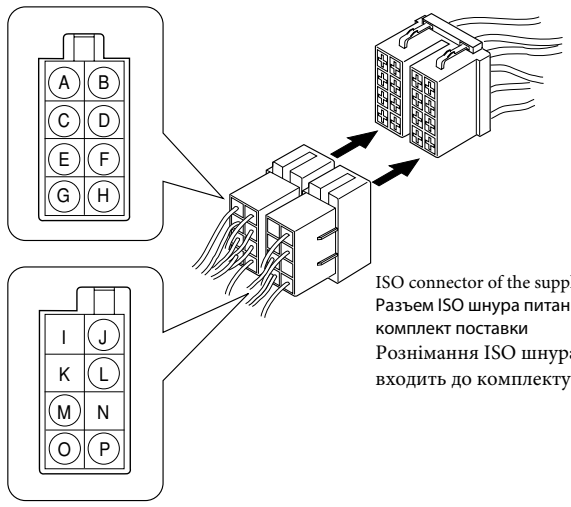


A If your car is equipped with the ISO connector / Если автомобиль оснащен разъемом ISO / Якщо ваше авто оснащене рознімaнням за стандартом ISO

- Connect the ISO connectors as illustrated.

- Подключите разъемы ISO, как показано на рисунке.

- Приєднайте рознімання ISO, як рекомендовано на ілюстрації.



From the car body
От корпуса автомобиля
Від корпусу авто

ISO connector of the supplied power cord
Разъем ISO шнура питания, входящего в комплект поставки
Рознімання ISO шнура живлення, що входить до комплекту постачання

View from the lead side
Вид со стороны выводов
Вид зі сторони електричних виводів

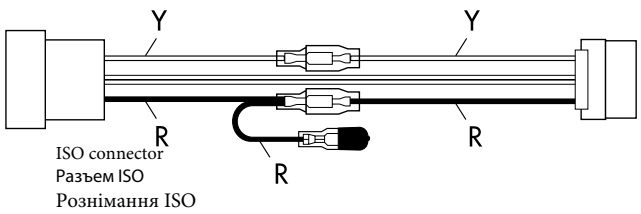
For some VW/Audi or Opel (Vauxhall) automobiles / Для некоторых автомобилей VW/Audi или Opel (Vauxhall) / Для деяких авто марки VW/Audi або Opel (Vauxhall)

You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.

Возможно, потребуется изменить схему соединений для прилагаемого шнура питания, как показано на рисунке.
- Перед установкой приемника обратитесь к авторизованному агенту по продажам автомобильных систем.

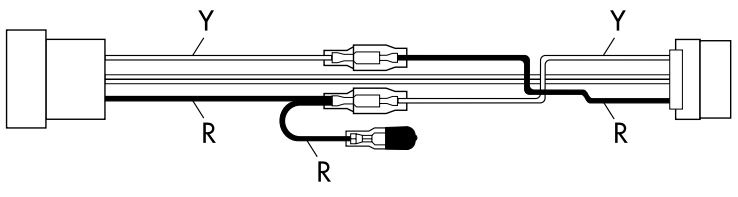
Вам, можливо, прийдеться внести зміни до з'єднання провідників шнура живлення згідно з ілюстрацією.
- Перед тим, як встановлювати цей пристрій, зв'яжіться з уповноваженим дилером вашого авто.

Original wiring / Исходная схема соединений / Початкова схема з'єднання рознімань



ISO connector
Разъем ISO
Рознімання ISO

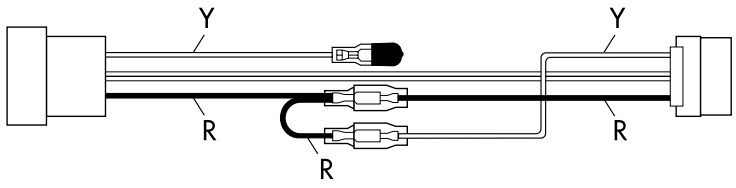
Modified wiring 1 / Преобразованная схема соединений 1 / Змінена схема з'єднання рознімань 1



Use modified wiring 2 if the unit does not turn on.
Если приемник не включается, используйте преобразованную схему соединений 2.
Якщо пристрій не включається, скористуйтеся зміненою схемою з'єднання рознімань 2.

Y: Yellow / Желтый / Жовтий
R: Red / Красный / Червоний

Modified wiring 2 / Преобразованная схема соединений 2 / Змінена схема з'єднання рознімань 2



B Connections without using the ISO connector / Подключение без использования разъема ISO / З'єднання без допомоги з'єднувача ISO

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

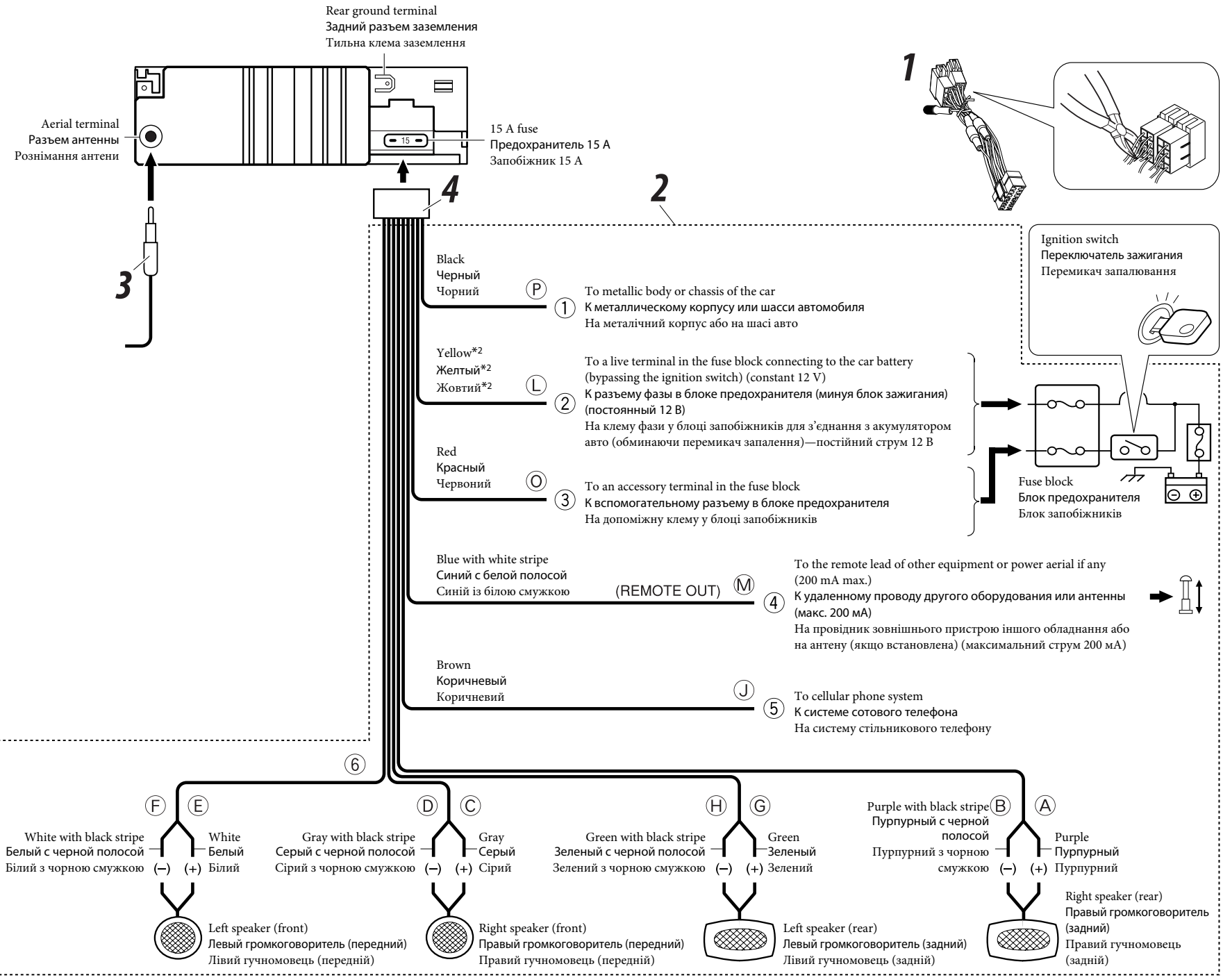
1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the unit.

Перед началом подключений: Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства.
Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.

1. Обрежьте разъем ISO.
2. Подсоедините цветные провода шнура питания в указанном ниже порядке.
3. Подключите кабель антенны.
4. В последнюю очередь подключите электропроводку к устройству.

Перед тим, як з'єднати: Уважно перевірте електричну схему з'єднання вашого авто Неправильне з'єднання може спричинити тяжке пошкодження вашого пристрою.
Контакти шнура живлення та рознімання, яке йде від корпуса авто можуть мати різні кольори.

1. Від'єднайте рознімання ISO.
2. З'єднайте кольорові провідники шнура живлення у порядку, що наведений нижче на ілюстрації.
3. Приєднайте провід антени.
4. Виконайте кінцеве приєднання джгута провідників до пристрою.



*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.

*1 Не входит в комплект.
*2 Перед проверкой работы устройства подключите этот провод, иначе питание не включится.

*1 Не входить до комплекту постачання цього пристрою.
*2 Перед тим, як перевірити працездатність цього виробу до його встановлення, цей контакт необхідно приєднати, інакше живлення на прилад подаватися не буде.

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?

- **Power cannot be turned on.**
* Is the yellow lead connected?

- **No sound from the speakers.**
* Is the speaker output lead short-circuited?

- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**
* Have you reset your unit?

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

- **Сработал предохранитель.**
* Правильно ли подключены черный и красный провода?

- **Питание не включается.**
* Подключен ли желтый провод?

- **Звук не выводится через громкоговорители.**
* Нет ли короткого замыкания на кабеле выхода громкоговорителей?

- **Звук искажен.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?

- **Шум мешает звучанию.**
* Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнуров?

- **Устройство нагревается.**
* Заземлен ли провод выхода громкоговорителей?
* Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?

- **Приемник не работает.**
* Выполнена ли перенастройка приемника?

НЕСПРАВНОСТІ

- **Вийшов з ладу запобіжник.**
* Чи правильно приєднані червоний та чорний провідники?

- **Не можна включити живлення.**
* Чи приєднаний жовтий провідник?

- **Звук з гучномовців відсутній.**
* Чи не замкнуто "на коротко" вихідні провідники гучномовця?

- **Звук спотворений.**
* Чи не заземлені вихідні провідники гучномовця?
* Чи заземлені разом провідники "–" лівого та правого гучномовця?

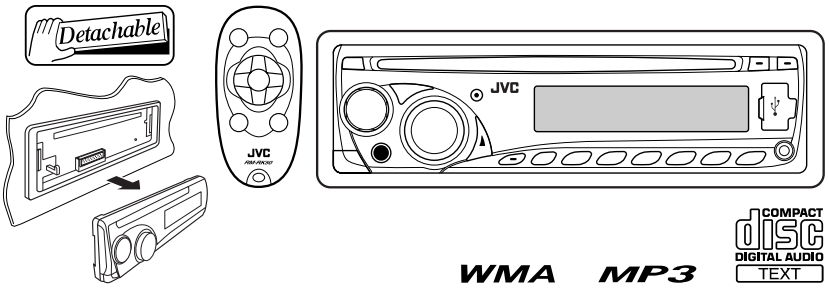
- **Звук чути з перешкодами.**
* Чи приєднано тильну клему заземлення до шасі авто за допомогою коротших та товстіших шнурів?

- **Пристрій нагрівається.**
* Чи не заземлені вихідні провідники гучномовця?
* Чи заземлені разом провідники "–" лівого та правого гучномовця?

- **Цей пристрій не працює взагалі.**
* Чи ви переналаштовували пристрій?

JVC

CD RECEIVER KD-G644



For canceling the display demonstration, see page 6.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

GET0503-001A
[UI]

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

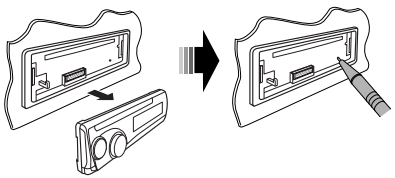
Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

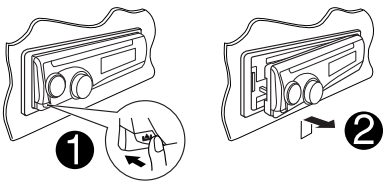
How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

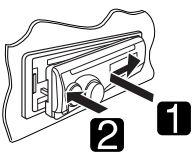
Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared, or press M MODE again.

Detaching the control panel



Attaching the control panel



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For safety...

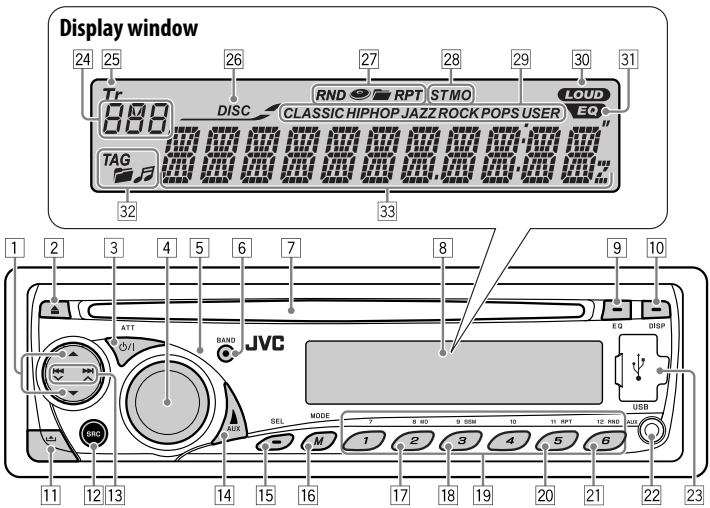
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel

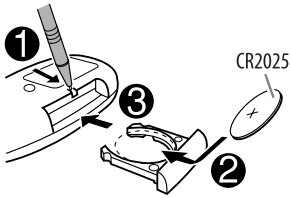
Parts identification



1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. EQ (equalizer) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. MO (monaural) button
18. SSM (Strong-station Sequential Memory) button
19. Number buttons
20. RPT (repeat) button
21. RND (random) button
22. AUX (auxiliary) input jack
23. USB (Universal Serial Bus) input jack
24. Source display / Track number / Folder number / Time countdown indicator
25. Tr (track) indicator
26. DISC indicator
27. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
28. Tuner reception indicators—ST (stereo), MO (monaural)
29. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
30. LOUD (loudness) indicator
31. EQ (equalizer) indicator
32. Disc information indicators— TAG (Tag information), (folder), (track/file)
33. Main display

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)

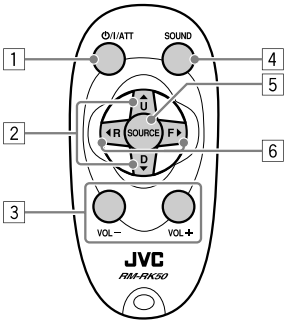


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

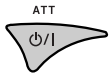
5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

Getting started

Basic operations

1 Turn on the power.

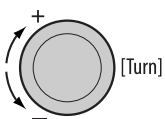


2

* *You cannot select these sources if they are not ready or not connected.*

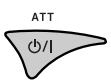
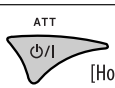
3 For FM/AM tuner

4 Adjust the volume.



Volume level appears.

5 Adjust the sound as you want. (See pages 11 and 12.)

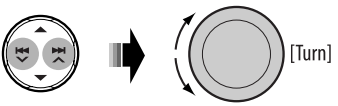
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 12 and 13.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute.

3 Finish the procedure.

To check the current clock time while the power is turned off

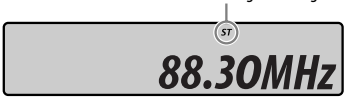
Clock time is shown on the display for about 5 seconds. See also page 13.

Radio operations

❶ SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

❷ BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



❸ **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step ❸ above...

1 [Hold]

2 **Select a desired station frequency.**

When an FM stereo broadcast is hard to receive

MODE M → 8 MO 2

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE M

3 9 SSM 3 [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Continued on the next page

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2

3 10 4 [Hold]

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 **Select the preset station (1 – 6) you want.**

or

To check the other information while listening to an FM or AM station

DISP

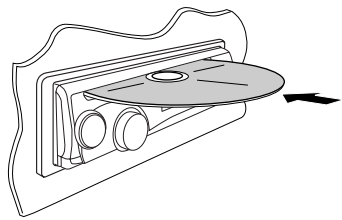
Frequency → Clock → Station name* → (back to the beginning)

** If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 14.*

Disc / USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

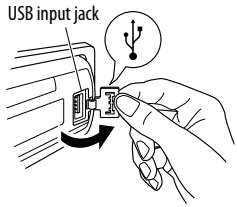
To stop play and eject the disc

- Press SRC to listen to another playback source.

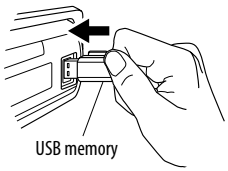
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



❷



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

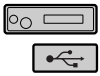
- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

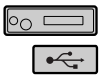
- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 17 and 18.

To fast-forward or reverse the track

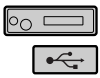
[Hold]



To go to the next or previous track



To go to the next or previous folder (for MP3/WMA)



To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names— 01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1

2

→ Track 1 to 9 → Track 10
--- 30 ← 20 ←

Each time you press the button, you can skip 10 tracks.

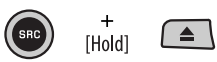
- After the last track, the first track will be selected and vice versa.

3

→ Track 31 → 32 → ---

Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → Disc title/performer*1 **→ Track title***1 [♫] **→ B →** (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 13)**

A → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♫] **→ B →** (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → Folder name [📁] **→ File name** [♫] **→ B →** (back to the beginning)

A : Clock with the current track number
B : The elapsed playing time with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE (M)

2 Select your desired playback mode.

■ **Repeat play** — 11 RPT (5)

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [*RPT*]
RPT OFF	: Cancels.

■ **Random play** — 12 RND (6)

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND*]
ALL RND	: All tracks of the current disc or USB device. [*RND*]
RND OFF	: Cancels.

** Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

EQ → **USER** → **ROCK** → **CLASSIC** → **POPS** → **HIP HOP** → **JAZZ** → **USER**

Preset values / Indication (For)	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → **MIDDLE** → **TREBLE** → **FADER** → **BALANCE** → **VOLUME** → **VOL ADJ** → **SUB.W** * → **LOUD** → **BASS**

** Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

2 [Turn]

Continued on the next page

Indication, [Range]
BASS *1, [–06 to +06] Adjust the bass.
MIDDLE *1 (mid-range), [–06 to +06] Adjust the mid-range frequencies sound level.
TREBLE *1, [–06 to +06] Adjust the treble.
FADER *2, [R06 to F06] Adjust the front and rear speaker output balance.
BALANCE *3, [L06 to R06] Adjust the left and right speaker output balance.
LOUD *4 (loudness), [LOUD ON or LOUD OFF] Boost low and high frequencies to produce a well-balanced sound at a low volume level.
SUB.W*5, [00 to 08, initial: 04] Adjust the subwoofer output level.
VOL ADJ (volume adjust), [–05 to +05, initial: 00] Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source. • Before making an adjustment, select the source you want to adjust.
VOLUME, [00 to 50 or 00 to 30] *6 Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *This adjustment will not affect the subwoofer output.*

*4 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*5 *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

*6 *Depending on the amplifier gain control setting. (See page 13 for details.)*

General settings — PSM

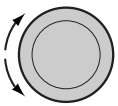
You can change PSM (Preferred Setting Mode) items listed in the table on page 13.

1

[Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.


[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON** • **DEMO OFF**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. : Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON** • **CLOCK OFF**	: The clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK HOUR Hour adjustment	**1 – 12**	[Initial: 1 (1:00)], [6]
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (1:00)], [6]
DIMMER Dimmer	• **AUTO** • **ON** • **OFF**	: Dims the display and button illumination when you turn on the headlights. : Activates dimmer. : Cancels.
SCROLL *2 Scroll	• **ONCE** • **AUTO** • **OFF**	: Scrolls the displayed information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE Line output mode	• **REAR** • **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier). : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
SUB.W FREQ*3 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [10]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.) : VOLUME 00 – VOLUME 50

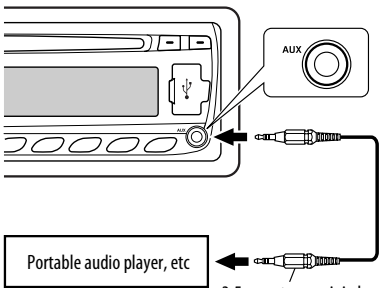
*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" that you save the car's battery.*

*2 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*3 *Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

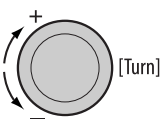


1

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

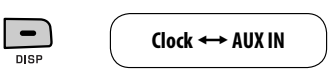
2 Turn on the connected component and start playing the source.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component

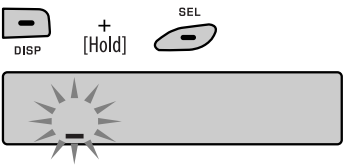


Title assignment

You can assign titles to 30 station frequencies (FM and AM) and up to 8 characters for each station name.

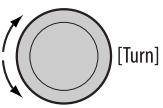
1 Select FM/AM.

2 Show the title entry screen.



3 Assign a title.

1 **Select a character.**



A	B	C	D	E	F	G
H	I	J	K	L	M	N
O	P	Q	R	S	T	U
V	W	X	Y	Z	0	1
2	3	4	5	6	7	8
9	–	/	<	>	space	

2 **Move to the next (or previous) character position.**

3 **Repeat steps 1 and 2 until you finish entering the title.**

4 Finish the procedure.

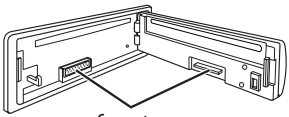
To erase the entire title

In step **2** above...

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

Center holder

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)

Warped disc

Sticker and sticker residue

Stick-on label

Unusual shape

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  - Bit rate: 8 kbps — 320 kbps
  - Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  - Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  - Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  - ISO 9660 Level 1: up to 12 characters
  - ISO 9660 Level 2: up to 31 characters
  - Romeo: up to 128 characters
  - Joliet: up to 64 characters
  - Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  - MP3 files encoded in MP3i and MP3 PRO format.
  - MP3 files encoded in an inappropriate format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded in lossless, professional, and voice format.
  - WMA files not based on Windows Media® Audio.
  - WMA files copy-protected with DRM.
  - Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "NO FILE" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
  - Bit rate of MP3: 16 kbps — 320 kbps
  - Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  - Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).

Continued on the next page

- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops.
  Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- "AUTO" setting for "DIMMER" may not work correctly on some vehicles, particularly on those having a control dial for dimming.
  In this case, change the "DIMMER" setting to any other than "AUTO."
- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Title assignment

- If you try to assign titles to more than 30 station frequencies, "NAMEFULL" appears. Delete unwanted titles before assignment.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	
Maximum Power Output:	
Front/Rear:	50 W per channel
Continuous Power Output (RMS):	
Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass:	±12 dB at 60 Hz
Mid-range:	±12 dB at 1 kHz
Treble:	±12 dB at 10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Output Impedance:	1 kΩ
Subwoofer-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Other Terminal:	AUX (auxiliary) input jack, USB input jack

TUNER SECTION	
Frequency Range:	
FM:	87.5 MHz to 108.0 MHz
AM:	531 kHz to 1 602 kHz
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
AM Tuner	
Sensitivity/Selectivity:	20 µV/35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	
Max. Bit Rate:	320 kbps
WMA (Windows Media® Audio) Decoding Format:	
Max. Bit Rate:	320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Storage:	Less than 8 GB (1 partition type)
Compatible Device:	Mass storage class (except HDD)
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	500 mA

GENERAL	
Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C
Dimensions (W × H × D): (approx.)	
Installation Size:	182 mm × 52 mm × 160 mm
Panel Size:	188 mm × 58 mm × 6 mm
Mass:	1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

JVC

EN

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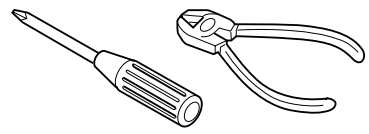
1107DTSMDTJEIN

KD-G644
Installation/Connection Manual



GET0503-002A
[UI]

1107DTSMDTJEIN
EN
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This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

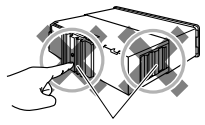
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

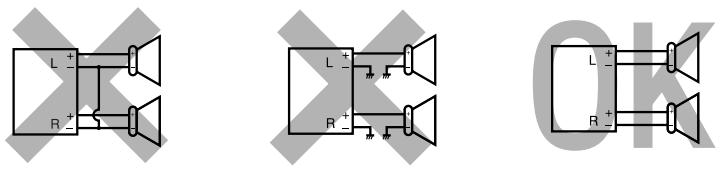
- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink

PRECAUTIONS on power supply and speaker connections:

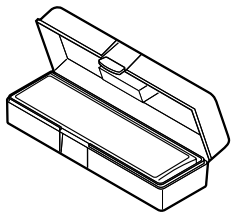
- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



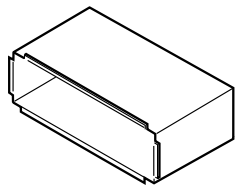
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

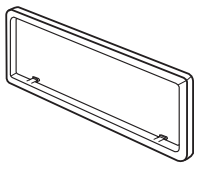
Ⓐ / Ⓑ
Hard case/Control panel



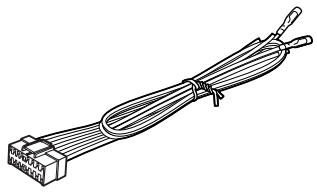
Ⓒ
Sleeve



Ⓓ
Trim plate



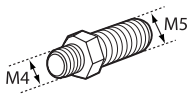
Ⓔ
Power cord



Ⓕ
Washer (ø5)

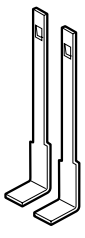
Ⓖ
Lock nut (M5)

Ⓗ
Mounting bolt
(M4 × 5 mm; M5 × 12.5 mm)

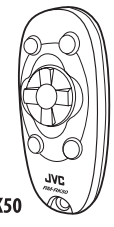


Ⓘ
Rubber cushion

Ⓙ
Handles



Ⓚ
Remote controller

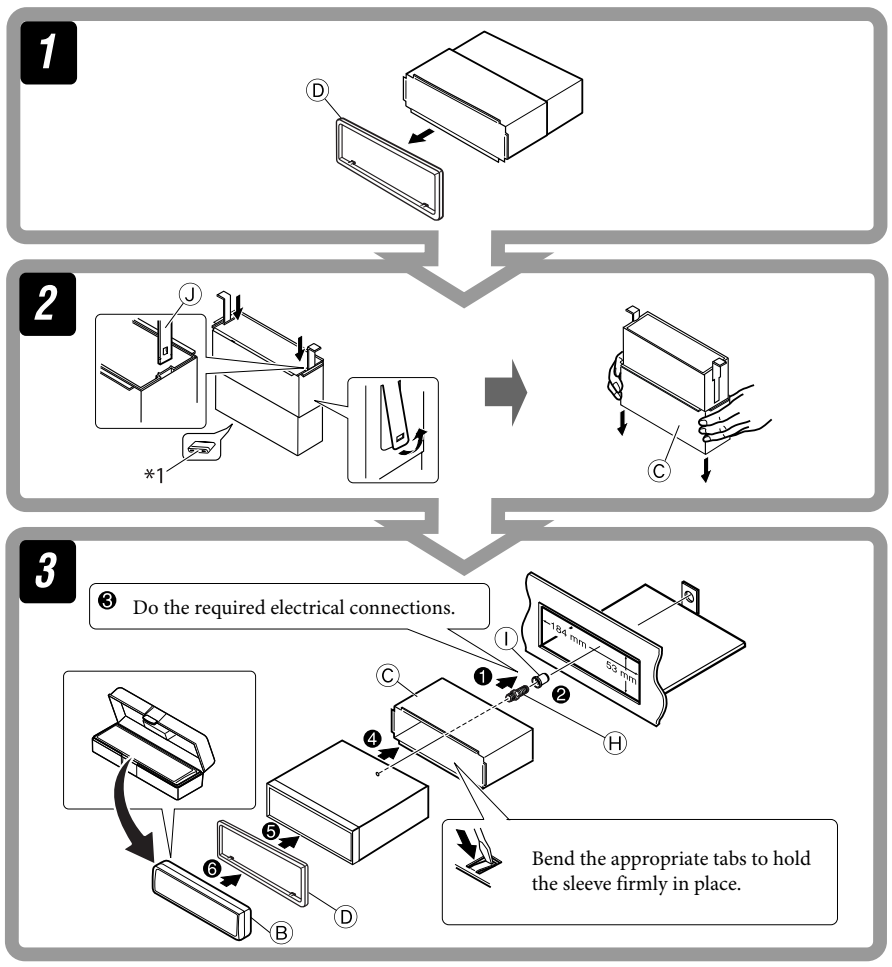


Ⓛ
Battery

INSTALLATION (IN-DASH MOUNTING)

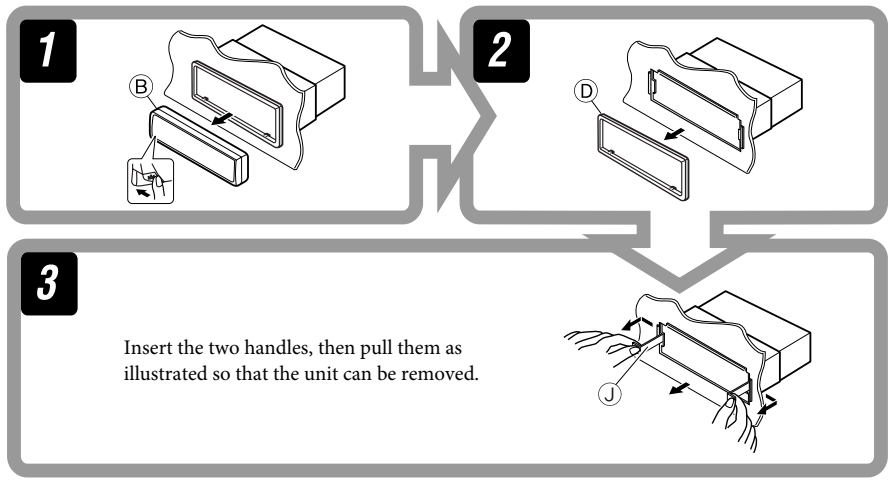
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

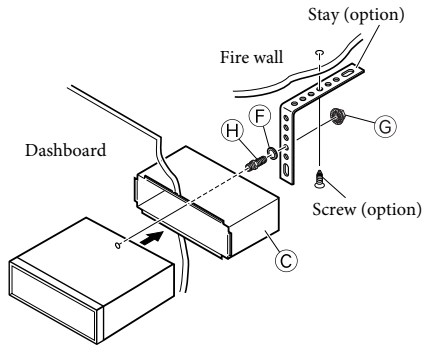


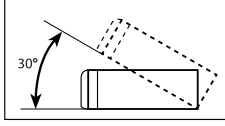
Removing the unit

Before removing the unit, release the rear section.



When using the optional stay

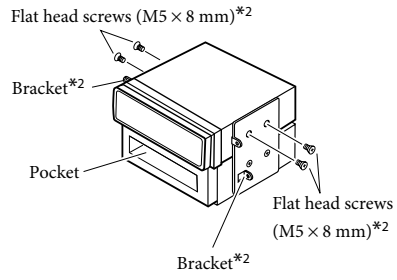




Install the unit at an angle of less than 30°.

When installing the unit without using the sleeve

In a Toyota car for example, first remove the car radio and install the unit in its place.



Note:

When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

*1 When you stand the unit, be careful not to damage the fuse on the rear.

*2 Not supplied for this unit.

ELECTRICAL CONNECTIONS

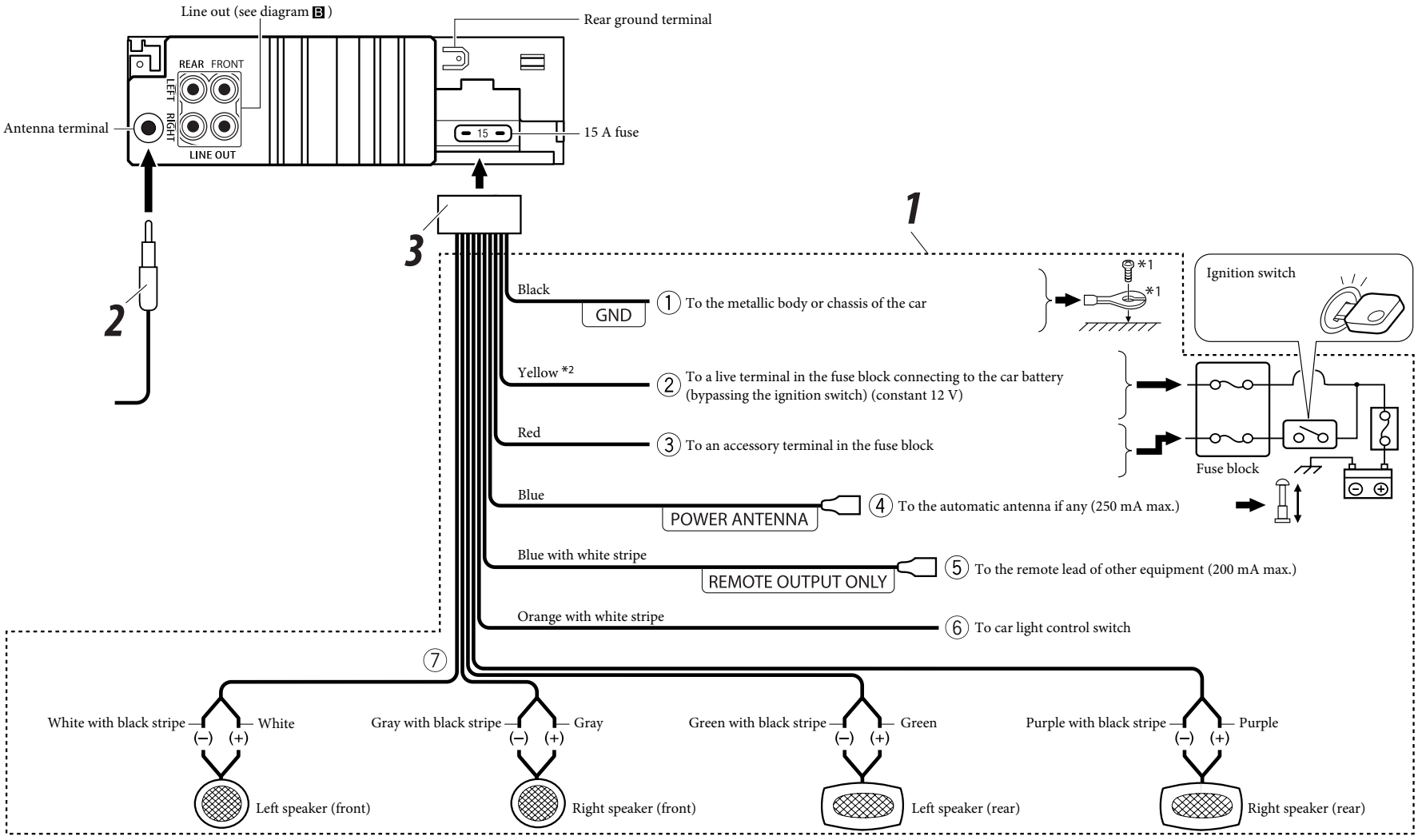
A Typical connections

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord in the order specified in the illustration below.

2 Connect the antenna cord.

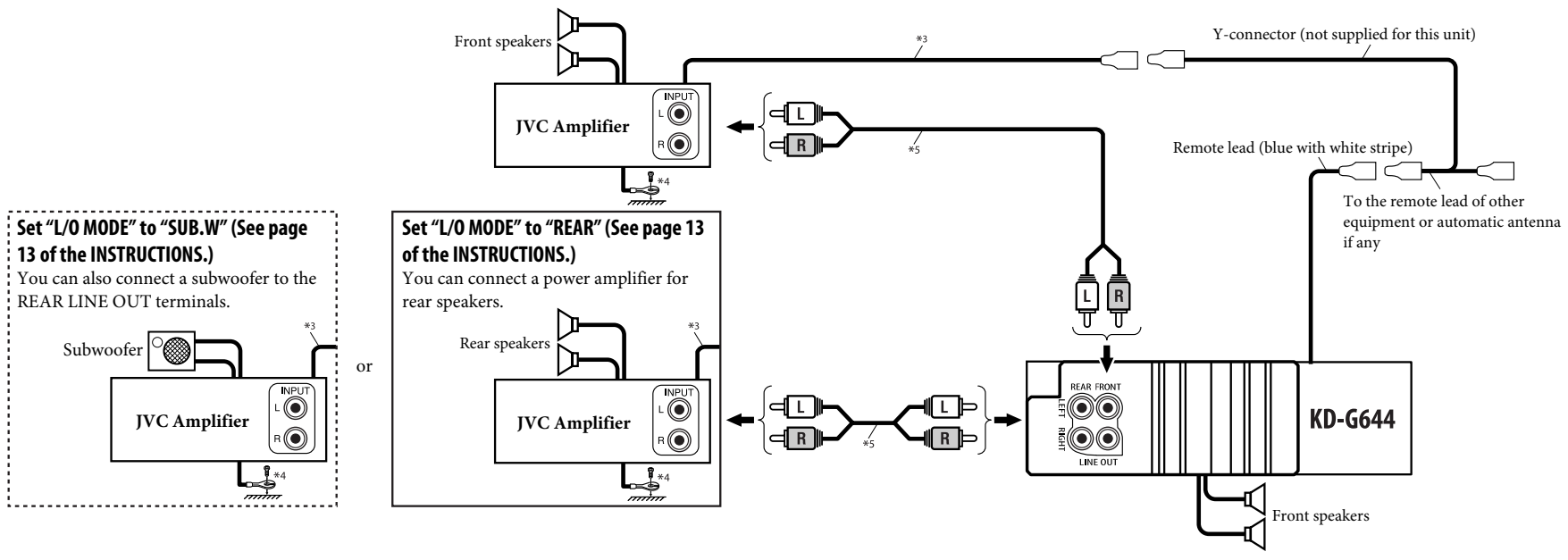
3 Finally connect the wiring harness to the unit.



B Connecting the external amplifiers and/or subwoofer

You can connect amplifiers to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**



*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.
*3 Remote lead
*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Signal cord (not supplied for this unit)

TROUBLESHOOTING

- **The fuse blows.**

* Are the red and black leads connected correctly?

- **Power cannot be turned on.**

* Is the yellow lead connected?

- **No sound from the speakers.**

* Is the speaker output lead short-circuited?

- **Sound is distorted.**

* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**

* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**

* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**

* Have you reset your unit?

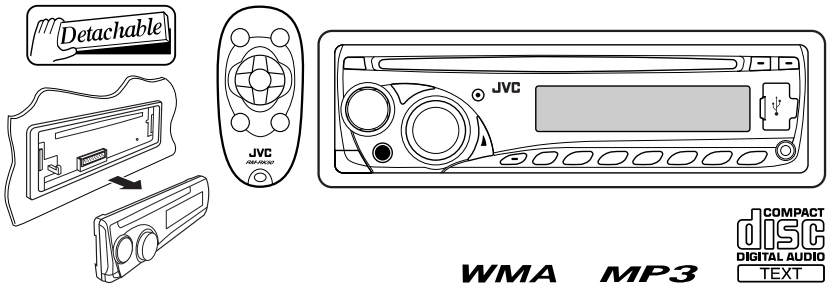
JVC

ENGLISH

ไทย

CD RECEIVER KD-G646/KD-G645

เครื่องเล่น CD KD-G646/KD-G645



WMA MP3

COMPACT disc DIGITAL AUDIO TEXT

For canceling the display demonstration, see page 6.
ดูที่หน้า 6 เพื่อยกเลิกการสาธิตภาพประกอบ

For installation and connections, refer to the separate manual.
กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

INSTRUCTIONS
คำแนะนำ

GET0502-001A
[U/UH]

ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学機器で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

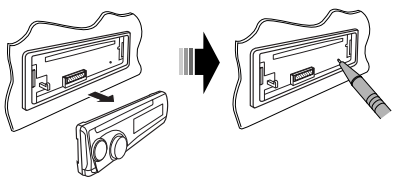
Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

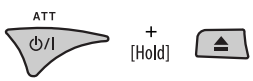
Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc



- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

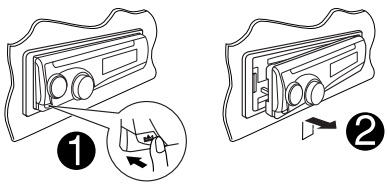
How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

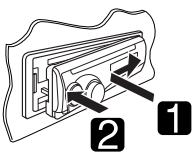
Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared, or press M MODE again.

Detaching the control panel



Attaching the control panel



The control panel illustrations used for explanation in this manual is of KD-G645.

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Control panel —KD-G646/KD-G645 4
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For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

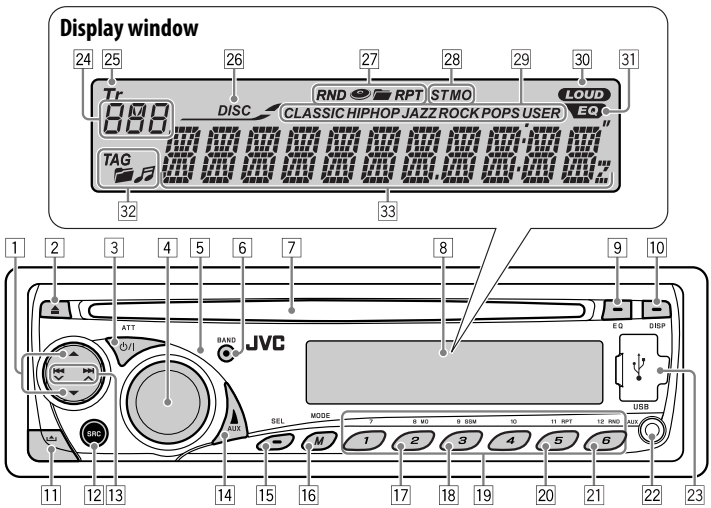
Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

ENGLISH

Control panel — KD-G646/KD-G645

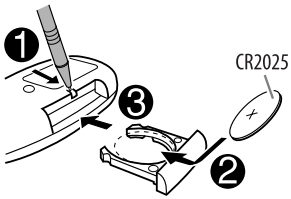
Parts identification



1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. EQ (equalizer) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. MO (monaural) button
18. SSM (Strong-station Sequential Memory) button
19. Number buttons
20. RPT (repeat) button
21. RND (random) button
22. AUX (auxiliary) input jack
23. USB (Universal Serial Bus) input jack
24. Source display / Track number / Folder number / Time countdown indicator
25. Tr (track) indicator
26. DISC indicator
27. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
28. Tuner reception indicators—ST (stereo), MO (monaural)
29. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
30. LOUD (loudness) indicator
31. EQ (equalizer) indicator
32. Disc information indicators— TAG (Tag information), (folder), (track/file)
33. Main display

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)

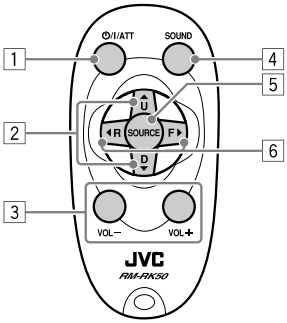


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

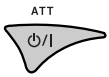
6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

ENGLISH

Getting started

Basic operations

1 Turn on the power.



2

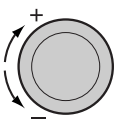
FM1/FM2/FM3/AM → AUX IN ← USB* ← CD* ←

* *You cannot select these sources if they are not ready or not connected.*

3 For FM/AM tuner

FM1 → FM2 → FM3 → AM ←

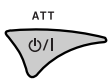
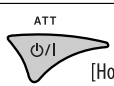
4 Adjust the volume.



[Turn]

Volume level appears.

5 Adjust the sound as you want. (See pages 11 and 12.)

To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	 [Hold]

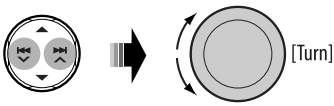
Basic settings

- See also "General settings — PSM" on pages 12 and 13.

1

[Hold]

2



[Turn]

1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute.

3 Finish the procedure.

To check the current clock time while the power is turned off

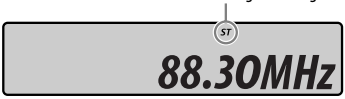
Clock time is shown on the display for about 5 seconds. See also page 13.

Radio operations

❶ SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

❷ BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



❸ **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step ❸ above...

1 [Hold]

2 **Select a desired station frequency.**

When an FM stereo broadcast is hard to receive

MODE → 8 MO

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE

3 9 SSM [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Continued on the next page

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2 → 92.50MHz

3 10 4 [Hold] → P4

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 **Select the preset station (1 – 6) you want.**

or

To check the other information while listening to an FM or AM station

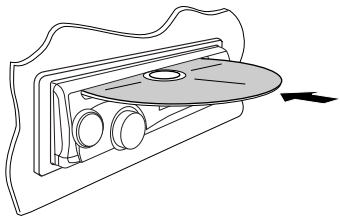
DISP → **Frequency** → **Clock** → **Station name*** → (back to the beginning)

** If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 14.*

Disc / USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

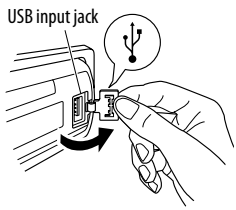
To stop play and eject the disc

- Press SRC to listen to another playback source.

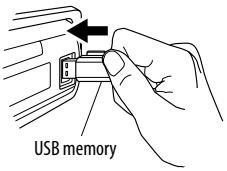
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



2



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 17 and 18.

To fast-forward or reverse the track

To go to the next or previous track

To go to the next or previous folder (for MP3/WMA)

To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

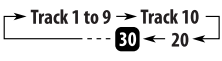
Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1

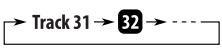
2



Each time you press the button, you can skip 10 tracks.

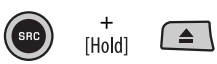
- After the last track, the first track will be selected and vice versa.

3



Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → Disc title/performer*1 **→ Track title***1 [♫] **→ B →** (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 13)**

A → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♫] **→ B →** (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → Folder name [📁] **→ File name** [♫] **→ B →** (back to the beginning)

A : Clock with the current track number
B : The elapsed playing time with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE (M)

2 Select your desired playback mode.

■ **Repeat play** — 11 RPT (5)

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [*RPT*]
RPT OFF	: Cancels.

■ **Random play** — 12 RND (6)

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND*]
ALL RND	: All tracks of the current disc or USB device. [*RND*]
RND OFF	: Cancels.

** Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

EQ → **USER** → **ROCK** → **CLASSIC** → **POPS** → **HIP HOP** → **JAZZ** → **USER**

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → **MIDDLE** → **TREBLE** → **FADER** → **BALANCE** → **VOLUME** → **VOL ADJ** → **SUB.W** * → **LOUD** → **BASS**

** Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

2 [Turn]

Continued on the next page

Indication, [Range]

BASS *1, [–06 to +06]
Adjust the bass.

MIDDLE *1 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *1, [–06 to +06]
Adjust the treble.

FADER *2, [R06 to F06]
Adjust the front and rear speaker output balance.

BALANCE *3, [L06 to R06]
Adjust the left and right speaker output balance.

LOUD *4 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W *5, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *This adjustment will not affect the subwoofer output.*

*4 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*5 *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

*6 *Depending on the amplifier gain control setting. (See page 13 for details.)*

General settings — PSM

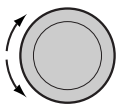
You can change PSM (Preferred Setting Mode) items listed in the table on page 13.

1

[Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.


[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON** • **DEMO OFF**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. : Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON** • **CLOCK OFF**	: The clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK HOUR Hour adjustment	**1 – 12**	[Initial: 1 (1:00)], [6]
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (1:00)], [6]
DIMMER Dimmer	• **AUTO** • **ON** • **OFF**	: Dims the display and button illumination when you turn on the headlights. : Activates dimmer. : Cancels.
SCROLL *2 Scroll	• **ONCE** • **AUTO** • **OFF**	: Scrolls the displayed information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE Line output mode	• **REAR** • **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier). : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
SUB.W FREQ*3 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [10]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.) : VOLUME 00 – VOLUME 50

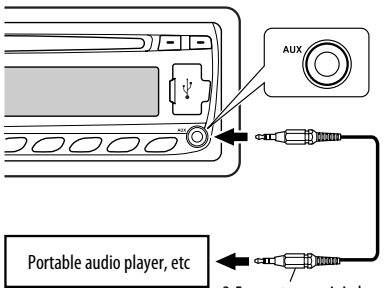
*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" that you save the car's battery.*

*2 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*3 *Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

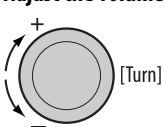


1

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

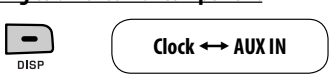
2 **Turn on the connected component and start playing the source.**

3 **Adjust the volume.**



4 **Adjust the sound as you want. (See pages 11 and 12.)**

To check the other information while listening to an external component

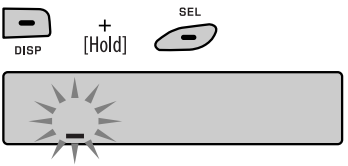


Title assignment

You can assign titles to 30 station frequencies (FM and AM) and up to 8 characters for each station name.

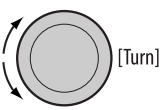
1 Select FM/AM.

2 Show the title entry screen.



3 Assign a title.

1 **Select a character.**



A	B	C	D	E	F	G	
H	I	J	K	L	M	N	
O	P	Q	R	S	T	U	
V	W	X	Y	Z	0	1	
2	3	4	5	6	7	8	
9	–	/	<	>	space		

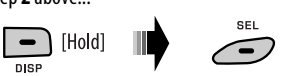
2 **Move to the next (or previous) character position.**

3 **Repeat steps 1 and 2 until you finish entering the title.**

4 Finish the procedure.

To erase the entire title

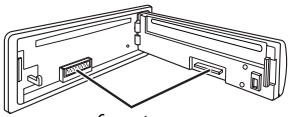
In step **2** above...



Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

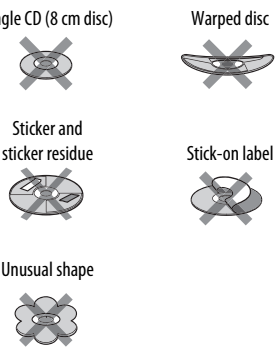
A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



ENGLISH

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "NO FILE" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).

Continued on the next page

- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops. Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- "AUTO" setting for "DIMMER" may not work correctly on some vehicles, particularly on those having a control dial for dimming.
  In this case, change the "DIMMER" setting to any other than "AUTO."
- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Title assignment

- If you try to assign titles to more than 30 station frequencies, "NAMEFULL" appears. Delete unwanted titles before assignment.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	
Maximum Power Output:	
Front/Rear:	50 W per channel
Continuous Power Output (RMS):	
Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass:	±12 dB at 60 Hz
Mid-range:	±12 dB at 1 kHz
Treble:	±12 dB at 10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Output Impedance:	1 kΩ
Subwoofer-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Other Terminal:	AUX (auxiliary) input jack, USB input jack

TUNER SECTION	
Frequency Range:	
FM:	87.5 MHz to 108.0 MHz
AM:	531 kHz to 1 602 kHz
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
AM Tuner	
Sensitivity/Selectivity:	20 µV/35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format:	(MPEG1/2 Audio Layer 3)
Max. Bit Rate:	320 kbps
WMA (Windows Media® Audio) Decoding Format:	
Max. Bit Rate:	320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Storage:	Less than 8 GB (1 partition type)
Compatible Device:	Mass storage class (except HDD)
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	500 mA

GENERAL	
Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C
Dimensions (W × H × D): (approx.)	
Installation Size:	182 mm × 52 mm × 160 mm
Panel Size:	188 mm × 58 mm × 6 mm
Mass:	1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

หากมีปัญหาในการใช้งาน

กรุณากดปุ่มตั้งค่าเริ่มต้นใหม่

กรุณาดูหน้าวิธีตั้งค่าเครื่องใหม่

JVC

EN, TH

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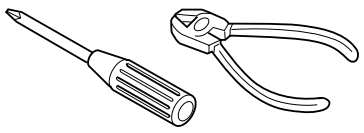
1007DTSMDTJEIN

KD-G646/KD-G645

Installation/Connection Manual

การติดตั้ง/คู่มือการติดตั้ง



GET0502-006A
[U/UH]

1007DTSMDTJEIN
EN, TH
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

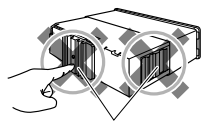
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8** Ω). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / แผ่นระบายความร้อน

ไทย

ชุดประกอบนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบ กระแสไฟฟ้าสายดินขั้วลบกระแสตรง **12 โวลท์ หากรถยนต์ของคุณไม่ได้ใช้ระบบนี้ ต้องใช้เครื่องแปลงกระแสไฟช่วย** ซึ่งสามารถหาซื้อได้จากร้านขายเครื่องเสียงรถยนต์ JVC

คำเตือน

เพื่อป้องกันการเกิดไฟฟ้าลัดวงจรขอแนะนำให้ปลดขั้วแบตเตอรี่ลบออกแล้วจึงต่อสายไฟก่อนติดตั้งเครื่อง

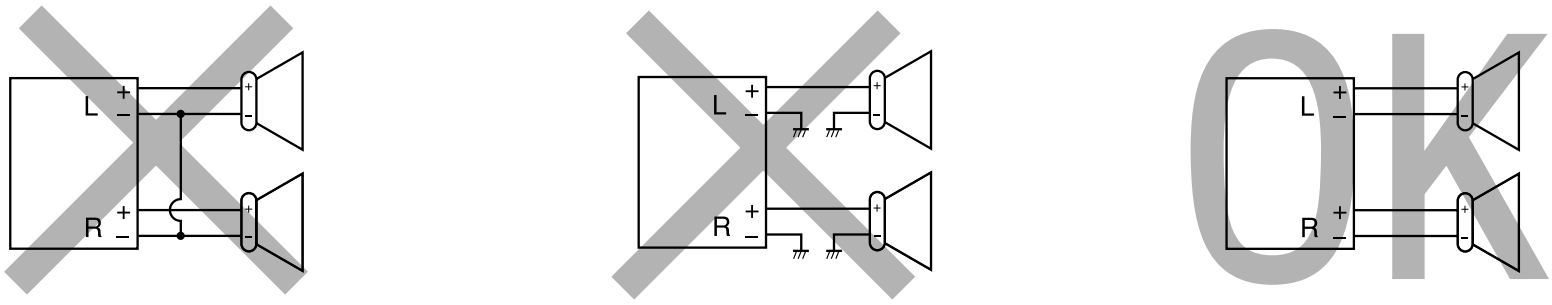
- **ตรวจสอบให้แน่ใจว่าได้เดินสายดินต่อระหว่างเครื่องกับตัวถัง รถยนต์ใหม่แล้วหลังจากติดตั้ง**

หมายเหตุ:

- ใช้พิกัดจำเพาะแทนฟิวส หากฟิวส์ขาดบ่อย ให้ปรึกษาร้า นขายเครื่องเสียงรถยนต์ JVC
- ขอแนะนำว่าให้ต่อลำโพงที่มีกำลังขับสูงสุดมากกว่า 50 W (ทั้งที่ด้านหลังและด้านหน้า โดยมีความต้านทาน **4 Ω ถึง 8** Ω) ถ้ากำลังขับต่ำกว่า 50 W ให้เปลี่ยนค่า "AMP GAIN" เพื่อป้องกันไม่ให้ลำโพงชำรุด (ดูหน้า 13 คำแนะนำ)
- การป้องกันการลัดวงจร จะต้องพันขั้วสายตะกั่ว **ที่ไม่ใช้แล้ว**ด้วยเท ปพันสายไฟ
- แผ่นระบายความร้อนจะร้อนมากหลังจากใช้ ระมัดระวังอย่าไป สัมผัสเมื่อถอดชุดประกอบนี้

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



ข้อควรระวังสำหรับการต่อแหล่งจ่ายกำลังและลำโพง:

- **อย่าต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับแบตเตอรี่รถยนต์ มิฉะนั้น ชุดประกอบจะได้รับความเสียหายมาก**
- ก่อนที่จะต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับลำโพง ให้ตรวจสอบการเดินสายไฟลำโพงในรถของคุณให้เรียบร้อยเสียก่อน

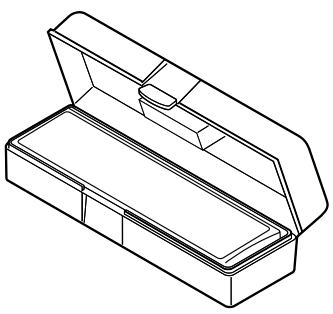
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

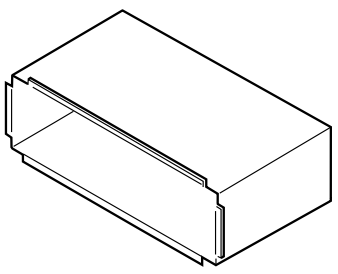
รายการส่วนประกอบสำหรับติดตั้งและเชื่อมต่อกัน

ส่วนประกอบต่อไปนี้ให้มากับชุดประกอบนี้ หากมีสิ่งใดไม่ครบ กรุณาปรึกษาตัวแทนจำหน่ายเครื่องเสียงติดรถยนต์ JVC โดยทันที

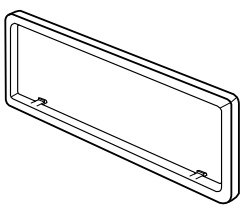
Ⓐ / Ⓑ
Hard case/Control panel
ลังบรรจุ/หน้าปัด



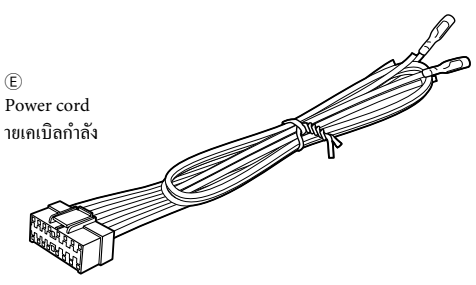
Ⓒ
Sleeve
ปลอกหุ้ม



Ⓓ
Trim plate
แผ่นโลหะขอบแต่ง



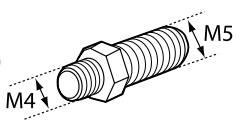
Ⓔ
Power cord
ายเคเบิลกำลัง



Ⓕ
Washer (ø5)
ประเก็นวงแหวน (ø5)

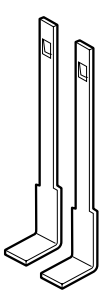
Ⓖ
Lock nut (M5)
นอตล็อค (M5)

Ⓗ
Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
สลักติด (M4 × 5 มม.; M5 × 12.5 มม.)

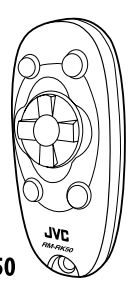


Ⓘ
Rubber cushion
ยางกันกระแทก

Ⓙ
Handles
คันบังคับ



Ⓚ
Remote controller
รีโมตคอนโทรล



RM-RK50

Ⓛ
Battery
แบตเตอร์

CR2025

INSTALLATION (IN-DASH MOUNTING)

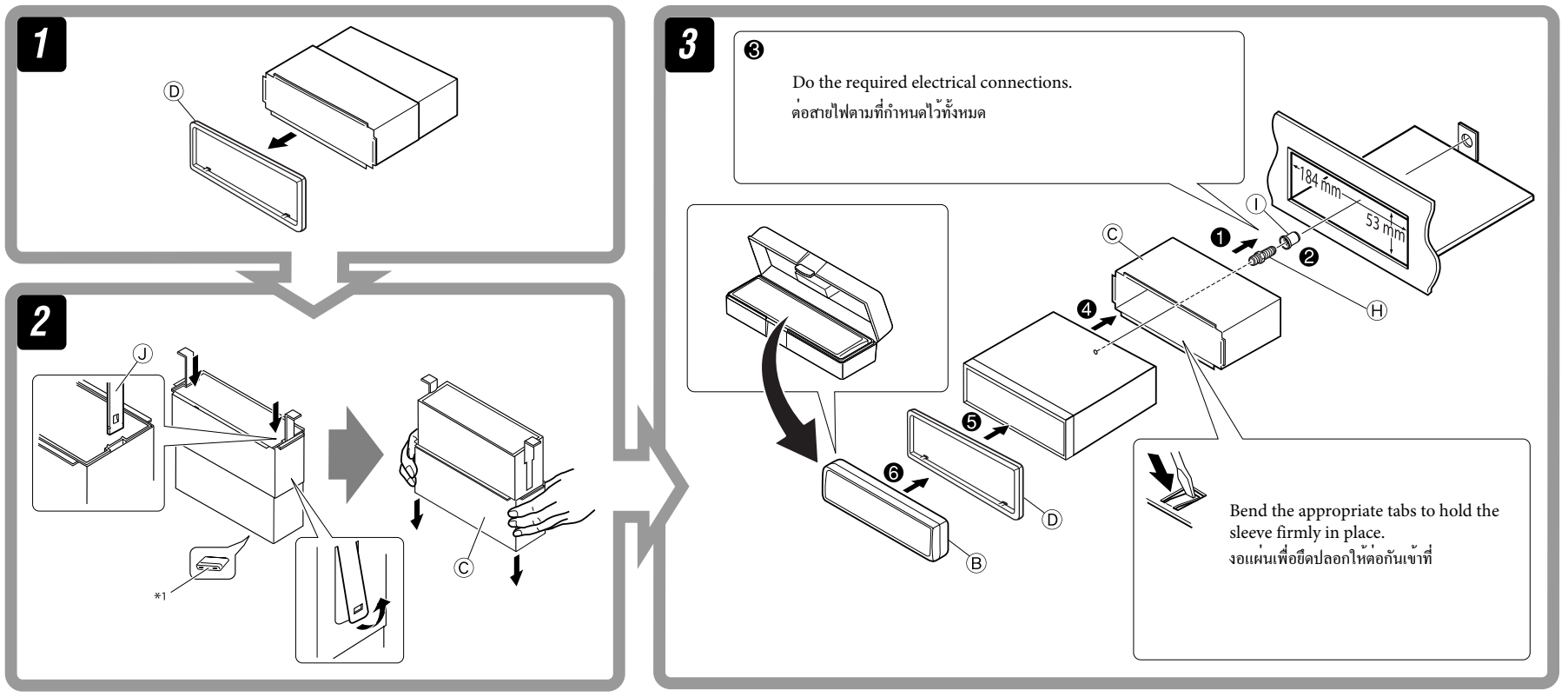
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

• If you are not sure how to install this unit correctly, have it installed by a qualified technician.

การติดตั้ง (การประกอบแผงหน้าปัทม์เข้า)

ภาพตัวอย่างต่อไปนี้แสดงถึงการติดตั้งแบบทั่วไป หากคุณมีปัญหาหรือต้องการข้อมูลเกี่ยวกับชุดติดตั้ง กรุณาปรึกษากับผู้ขายเครื่องเสียงรถยนต์ JVC ของท่านหรือบริษัท

• ชุดประกอบ ถ้าคุณไม่แน่ใจว่าติดตั้งชุดประกอบนี้ถูกต้องหรือไม่ ให้หาช่างผู้เชี่ยวชาญเป็นผู้ติดตั้ง

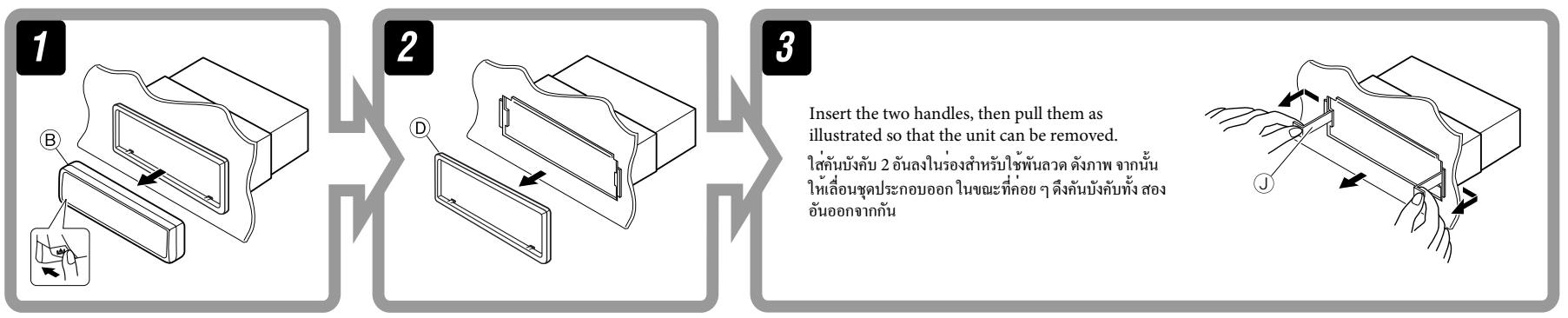


Removing the unit

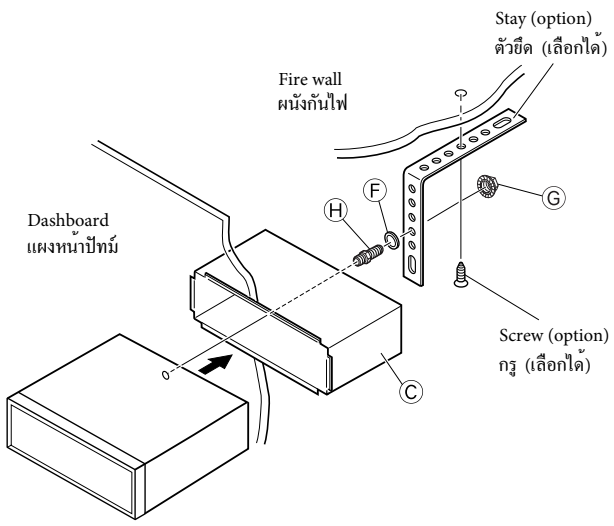
Before removing the unit, release the rear section.

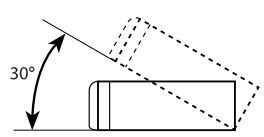
การถอดชุดประกอบ

ก่อนจะถอดชุดประกอบ ให้ปลดหน้าตัดส่วนท้ายก่อน



When using the optional stay / เมื่อใช้ตัวยึดแบบเลือกได้

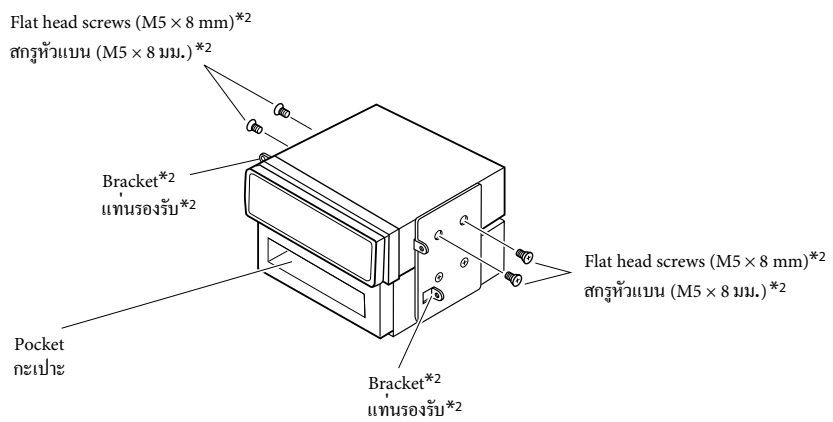




Install the unit at an angle of less than 30°.
ติดตั้งชุดประกอบที่มุมต่ำกว่า 30° องศา

When installing the unit without using the sleeve / เมื่อติดตั้งชุดประกอบโดยไม่ใช้ปลอกหุ้ม

In a Toyota car for example, first remove the car radio and install the unit in its place.
ตัวอย่างเช่น ในรถยนต์โตโยต้า ให้ถอดวิทยุติดรถยนต์ออกก่อน แล้วจึงติดตั้งเครื่องนี้เข้าแทนที่



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

หมายเหตุ : เมื่อติดตั้งชุดประกอบลงในแท่นรองรับไว้ ให้ใช้สกรูยาวขนาด 8 มม. ถ้าใช้สกรูยาวกว่านี้อาจทำให้ชุดประกอบเสียหายได้

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 เมื่อคุณตั้งชุดประกอบขึ้น ระวังอย่าทำให้ฟิวส์บริเวณส่วนท้ายเสียหาย
*2 ไม่ได้ให้มากับชุดประกอบนี้

ENGLISH

ELECTRICAL CONNECTIONS

A Typical connections / การเชื่อมต่อแบบปกต

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord in the order specified in the illustration below.

2 Connect the antenna cord.

3 Finally connect the wiring harness to the unit.

ไทย

การเชื่อมโดยใช้ไฟฟ้า

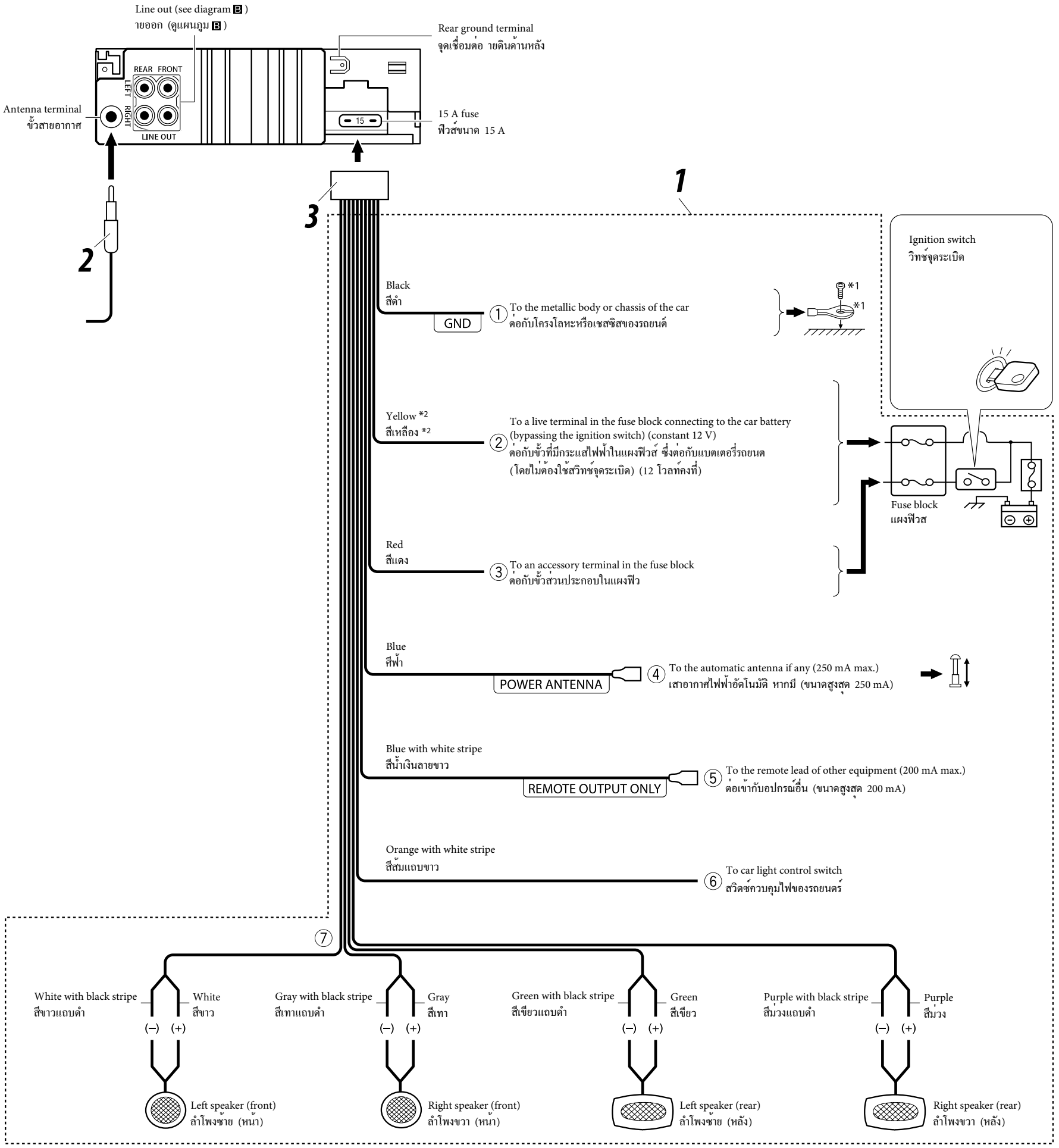
A Typical connections / การเชื่อมต่อแบบปกต

ก่อตทำกาตุเชต่อมต่อ: ตตวจ อตุกาตเดิต ายไฟใตุตยตต์อย่างตะมัดตะวัอย่าให้ผิดพตาดใตกาตเชต่อมต่อชุดปตะกอตชุดตี กาตเชต่อมต่ออผิดพตาดอาจทำให้เกิดตวามเีียหายต้ายแตงกัตชุดปตะ
กอตตี้ใต้าตดะกั่วของ ายไฟ แตะของอุปกตต์ต่อเชต่อมจากตัวต งตตอาจมี ที่ไม่เหมตอตกั

1 ต่อสายไฟสีตามลำดับที่ระบุในรูปด้านล่าง

2 เชื่อมต่อกับายอากาศ

3 สุดท้าย ต่อส่วนควบคุมการเดินสายไฟเข้ากับชุดประกอบชุดนี้



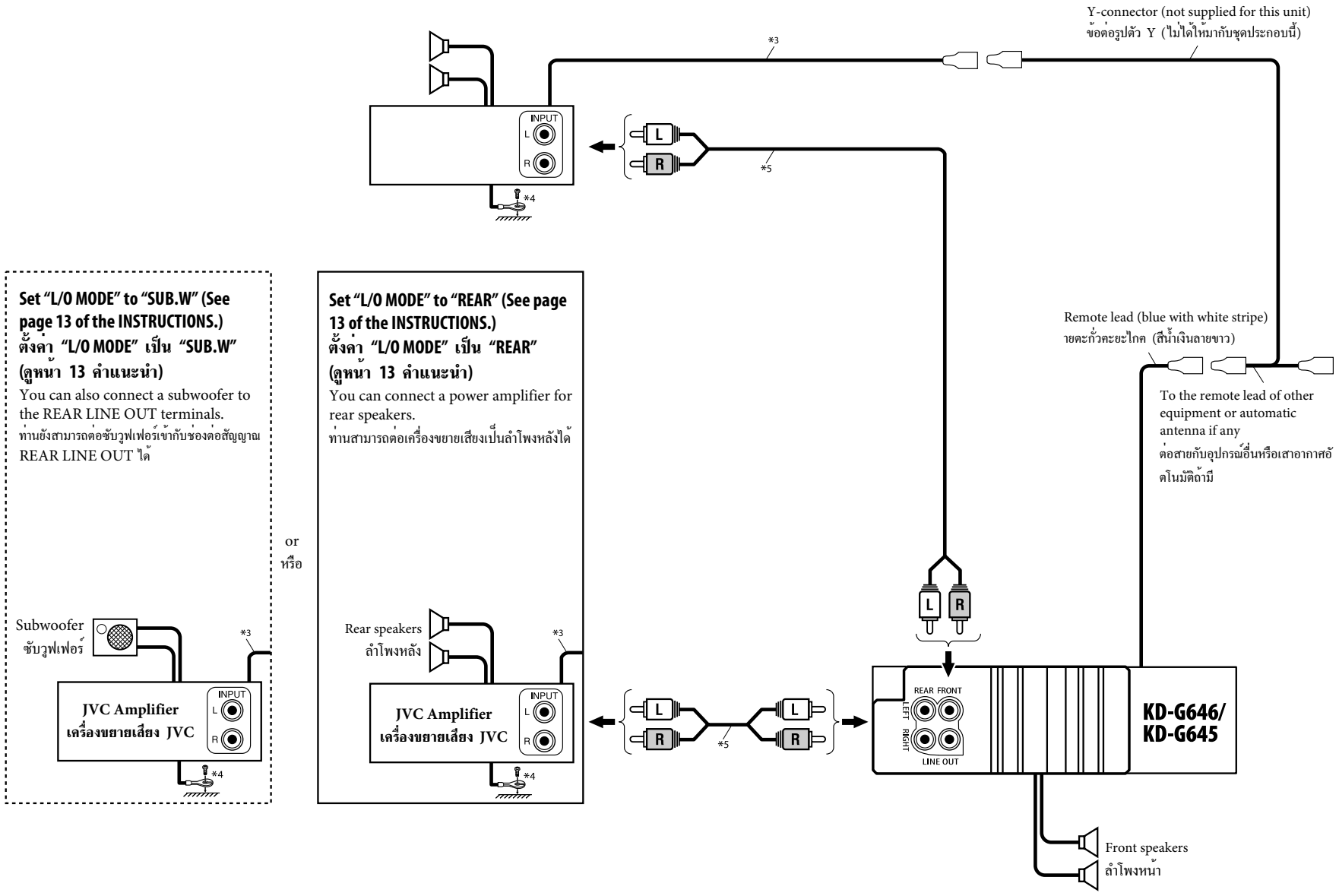
*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 ไม่ได้ให้มากับชุดประกอบนี้
*2 ก่อนการตรวจสอบการทำงานของชุดประกอบนี้ก่อนที่จะติดตั้ง ต้องต่อสายตะกั่วนี้ก่อนมิฉะนั้นจะไมสามารถเปิดเครื่องได

B Connecting the external amplifiers and/or subwoofer / ต่อแอมปลิฟายเออร์และ/หรือซับวูฟเฟอร์ด้านอก

You can connect amplifiers to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

คุณสามารถต่อกับแอมพลิฟายเออร์ได้หลยาเพื่อเพิ่มคุณภาพเสียงให้กับระบบสเตอริโอในรถยนต์
- ต่อสายตะกั่วระยะไกล (สีน้ำเงินลายขาว) เข้ากับสายตะกั่วระยะไกลของอุปกรณ์อื่น ๆ เพื่อจะสามารถควบคุมโดยชุดประกอบนี้ได้
- **ถอดลำโพงออกจากชุดประกอบนี้ แล้วต่อเข้ากับเครื่องขยาย ทิ้งสายตะกั่วลำโพงของชุดประกอบนี้ไว้**



*3 Remote lead
*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Signal cord (not supplied for this unit)

*3 ายตะกั่วตะยะไกล
*4 ต่อลวดสายดินให้แน่นเข้ากับตัวถังเหล็ก หรือตัวถังรถ—ตรงส่วน ที่ไม่มีสีเคลือบ (หากมีสีเคลือบอยู่ ให้ขูดสีออกก่อน ก่อนต่อลวดสายดิน) หากไม่ปฏิบัติตามคำแนะนำนี้ เครื่องอาจชำรุดหรือเสียหายได
*5 ายเคเบิลสัญญาณ (ไม่ได้ให้มากับชุดประกอบนี้)

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?

- **Power cannot be turned on.**
* Is the yellow lead connected?

- **No sound from the speakers.**
* Is the speaker output lead short-circuited?

- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**
* Have you reset your unit?

การตรวจสอบปัญหาขัดข้อง

- **ฟิวส์ขาด**
* มีการเชื่อม ายตะกั่วสีดำและสีแดงอย่างถูกต้องหรือไม่

- **ไม่สามารถเปิดเครื่องได้**
* มีการเชื่อมสายตะกั่วสีเหลืองหรือไม่

- **ไม่มีเสียงออกจากลำโพง**
* สายตะกั่วส่วนที่ออกทางลำโพงเกิดไฟฟ้าลัดวงจรหรือไม่

- **เสียงเพี้ยน**
* สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
* สายขั้วลบ "–" ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่

- **เสียงรบกวน**
* มีการใช้สายสั้นๆ หรือหนาๆ ต่อจากเครื่องสวนที่ติดตั้ง ไว้บนพื้นด้านหลังกับตัวถังรถยนต์หรือไม่

- **ชุดประกอบร้อนขึ้น**
* สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
* สายขั้วลบ "–" ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่

- **เครื่องรับนี้ทำงานไม**
* ท่านได้ตั้งเครื่องใหม่แล้วหรือยัง

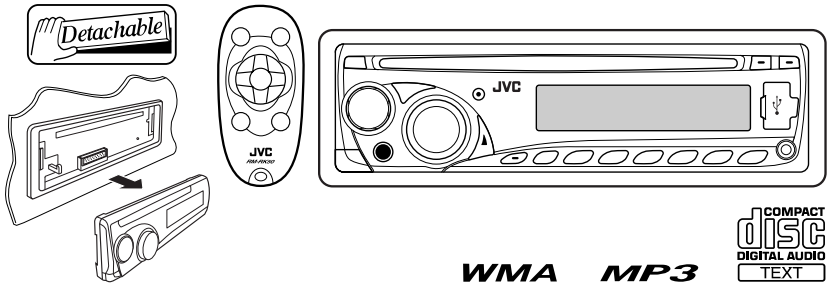
JVC

ENGLISH

INDONESIA

CD RECEIVER KD-G646/KD-G645

ALAT PENERIMA CD KD-G646/KD-G645



WMA MP3

COMPACT disc DIGITAL AUDIO TEXT

For canceling the display demonstration, see page 6.
Untuk membatalkan tampilan demonstrasi, lihat halaman 6.

For installation and connections, refer to the separate manual.
Untuk instalasi dan penyambungan, lihat buku pedoman terpisah.

INSTRUCTIONS
BUKU PETUNJUK

GET0502-004A
[UN]

ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学機器で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

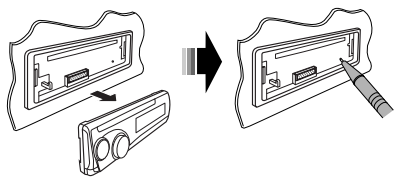
Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

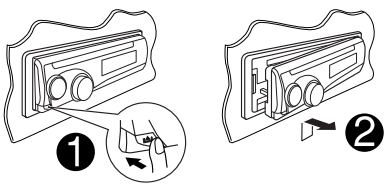
How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

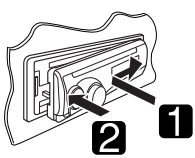
Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared, or press M MODE again.

Detaching the control panel



Attaching the control panel



The control panel illustrations used for explanation in this manual is of KD-G645.

CONTENTS

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Maintenance 15
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For safety...

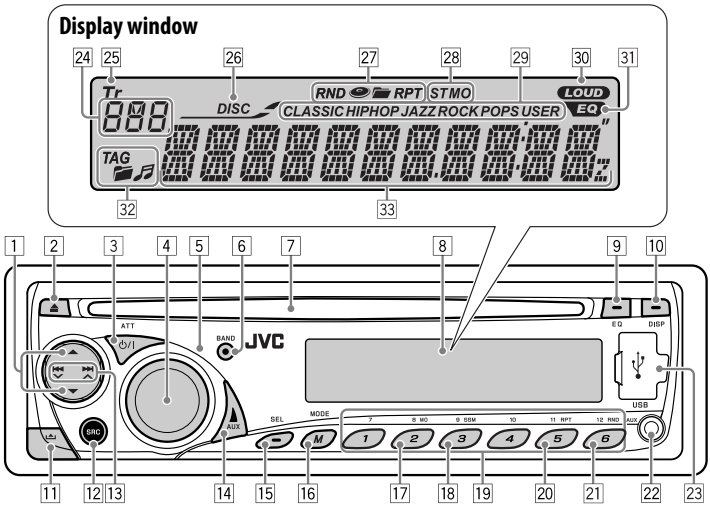
- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Control panel — KD-G646/KD-G645

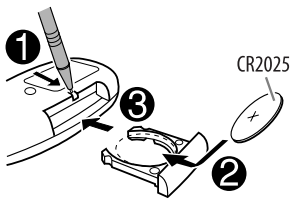
Parts identification



1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. EQ (equalizer) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. MO (monaural) button
18. SSM (Strong-station Sequential Memory) button
19. Number buttons
20. RPT (repeat) button
21. RND (random) button
22. AUX (auxiliary) input jack
23. USB (Universal Serial Bus) input jack
24. Source display / Track number / Folder number / Time countdown indicator
25. Tr (track) indicator
26. DISC indicator
27. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
28. Tuner reception indicators—ST (stereo), MO (monaural)
29. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
30. LOUD (loudness) indicator
31. EQ (equalizer) indicator
32. Disc information indicators— TAG (Tag information), (folder), (track/file)
33. Main display

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)

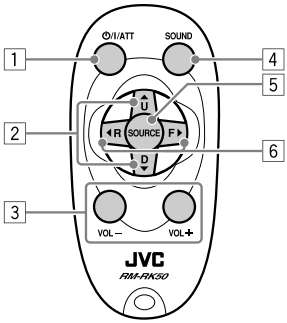


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

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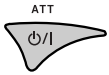
Getting started

Basic operations

1 Turn on the power.

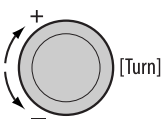


2

** You cannot select these sources if they are not ready or not connected.*

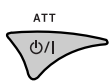
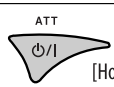
3 For FM/AM tuner

4 Adjust the volume.



Volume level appears.

5 Adjust the sound as you want. (See pages 11 and 12.)

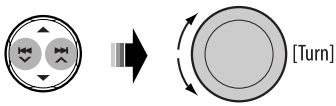
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 12 and 13.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute.

3 Finish the procedure.

To check the current clock time while the power is turned off

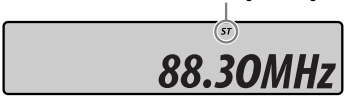
Clock time is shown on the display for about 5 seconds. See also page 13.

Radio operations

❶ SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

❷ BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



❸ **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step ❸ above...

1 [Hold]

2 **Select a desired station frequency.**

When an FM stereo broadcast is hard to receive

MODE (M) → 8 MO (2)

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 **Select the FM band (FM1 – FM3) you want to store into.**

BAND → FM1 → FM2 → FM3 → AM

2 MODE (M)

3 9 SSM (3) [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Continued on the next page

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → **FM1** → FM2 → FM3 → AM

2

3 10 **4** [Hold]

Preset number flashes for a while.

Listening to a preset station

1 BAND → **FM1** → FM2 → FM3 → AM

2 Select the preset station (1 – 6) you want.

or

To check the other information while listening to an FM or AM station

DISP

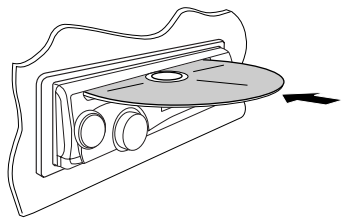
Frequency → **Clock** → **Station name*** → (back to the beginning)

** If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 14.*

Disc / USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

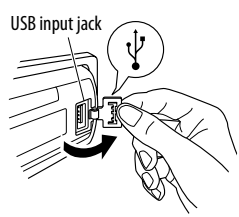
To stop play and eject the disc

- Press SRC to listen to another playback source.

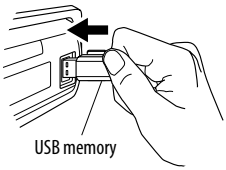
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1



❷



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

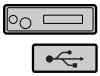
- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

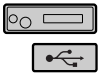
- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 17 and 18.

To fast-forward or reverse the track

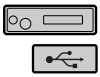
[Hold]



To go to the next or previous track



To go to the next or previous folder (for MP3/WMA)



To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:

[Hold]

- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1

2

→ Track 1 to 9 → Track 10
--- 30 ← 20 ←

Each time you press the button, you can skip 10 tracks.

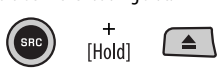
- After the last track, the first track will be selected and vice versa.

3

→ Track 31 → 32 → ---

Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → Disc title/performer*1 **→ Track title***1 [♪] **→ B →** (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 13)**

A → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♪] **→ B →** (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → Folder name [📁] **→ File name** [♪] **→ B →** (back to the beginning)

A : Clock with the current track number
B : The elapsed playing time with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE

2 Select your desired playback mode.

■ **Repeat play** 11 RPT

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [*RPT*]
RPT OFF	: Cancels.

■ **Random play** 12 RND

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND*]
ALL RND	: All tracks of the current disc or USB device. [*RND*]
RND OFF	: Cancels.

* *Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

EQ → **USER** → **ROCK** → **CLASSIC** → **POPS** → **HIP HOP** → **JAZZ** →

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

→ **BASS** → **MIDDLE** → **TREBLE** → **FADER** → **BALANCE** → **VOLUME** → **VOL ADJ** → **SUB.W** * → **LOUD** →

* *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

2 [Turn]

Continued on the next page

Indication, [Range]

BASS *1, [–06 to +06]
Adjust the bass.

MIDDLE *1 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *1, [–06 to +06]
Adjust the treble.

FADER *2, [R06 to F06]
Adjust the front and rear speaker output balance.

BALANCE *3, [L06 to R06]
Adjust the left and right speaker output balance.

LOUD *4 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W *5, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *This adjustment will not affect the subwoofer output.*

*4 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*5 *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

*6 *Depending on the amplifier gain control setting. (See page 13 for details.)*

General settings — PSM

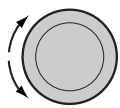
You can change PSM (Preferred Setting Mode) items listed in the table on page 13.

1

[Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.



[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON** • **DEMO OFF**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. : Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON** • **CLOCK OFF**	: The clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK HOUR Hour adjustment	**1 – 12**	[Initial: 1 (1:00)], [6]
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (1:00)], [6]
DIMMER Dimmer	• **AUTO** • **ON** • **OFF**	: Dims the display and button illumination when you turn on the headlights. : Activates dimmer. : Cancels.
SCROLL *2 Scroll	• **ONCE** • **AUTO** • **OFF**	: Scrolls the displayed information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE Line output mode	• **REAR** • **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier). : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
SUB.W FREQ*3 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [10]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.) : VOLUME 00 – VOLUME 50

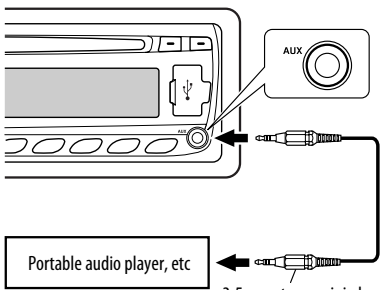
*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" that you save the car's battery.*

*2 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*3 *Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.



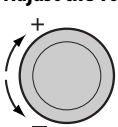
1

FM1/FM2/FM3/AM
AUX IN ← USB ← CD

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

2 **Turn on the connected component and start playing the source.**

3 **Adjust the volume.**



4 **Adjust the sound as you want. (See pages 11 and 12.)**

To check the other information while listening to an external component

Clock ↔ AUX IN

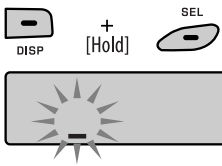
Title assignment

You can assign titles to 30 station frequencies (FM and AM) and up to 8 characters for each station name.

1 **Select FM/AM.**

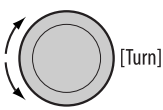
FM1/FM2/FM3/AM
AUX IN ← USB ← CD

2 **Show the title entry screen.**



3 **Assign a title.**

1 **Select a character.**



A	B	C	D	E	F	G	
H	I	J	K	L	M	N	
O	P	Q	R	S	T	U	
V	W	X	Y	Z	0	1	
2	3	4	5	6	7	8	
9	–	/	<	>	space		

2 **Move to the next (or previous) character position.**

3 **Repeat steps 1 and 2 until you finish entering the title.**

4 **Finish the procedure.**

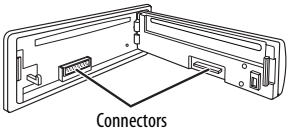
To erase the entire title

In step **2** above...

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

Center holder

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)

Warped disc

Sticker and sticker residue

Stick-on label

Unusual shape

ENGLISH

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "NO FILE" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).

Continued on the next page

- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops.
  Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- "AUTO" setting for "DIMMER" may not work correctly on some vehicles, particularly on those having a control dial for dimming.
  In this case, change the "DIMMER" setting to any other than "AUTO."
- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Title assignment

- If you try to assign titles to more than 30 station frequencies, "NAMEFULL" appears. Delete unwanted titles before assignment.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	
Maximum Power Output:	
Front/Rear:	50 W per channel
Continuous Power Output (RMS):	
Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass:	±12 dB at 60 Hz
Mid-range:	±12 dB at 1 kHz
Treble:	±12 dB at 10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Output Impedance:	1 kΩ
Subwoofer-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Other Terminal:	AUX (auxiliary) input jack, USB input jack

TUNER SECTION	
Frequency Range:	
FM:	87.5 MHz to 108.0 MHz
AM:	531 kHz to 1 602 kHz
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
AM Tuner	
Sensitivity/Selectivity:	20 µV/35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format:	(MPEG1/2 Audio Layer 3)
Max. Bit Rate:	320 kbps
WMA (Windows Media® Audio) Decoding Format:	
Max. Bit Rate:	320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Storage:	Less than 8 GB (1 partition type)
Compatible Device:	Mass storage class (except HDD)
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	500 mA

GENERAL	
Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C
Dimensions (W × H × D): (approx.)	
Installation Size:	182 mm × 52 mm × 160 mm
Panel Size:	188 mm × 58 mm × 6 mm
Mass:	1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Ada MASALAH dengan cara pengoperasian?

Setel kembali unit Anda

Lihat halaman mengenai Bagaimana mereset unit anda

JVC

EN, IN

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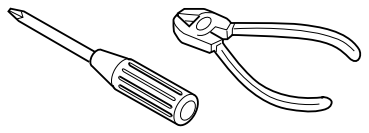
1007DTSMDTJEIN

KD-G646/KD-G645

Installation/Connection Manual
Manual Pemasangan/Penyambungan



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[UN]

1007DTSMDTJEIN
EN, IN
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

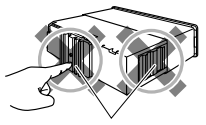
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / *Pendingin*

INDONESIA

Unit ini didisain untuk beroperasi hanya pada ***12 V DC, sistem listrik tanah NEGATIVE****. Jika kendaraan anda tidak memiliki sistem ini, sebuah pembalik tegangan diperlukan, yang mana dapat dibeli di penyalur-penyalur audio mobil JVC.*

PERINGATAN

Untuk mencegah hubungan pendek, kami menyarankan anda memutuskan sambungan terminal negatif baterai dan membuat semua sambungan-sambungan listrik sebelum memasang unit.

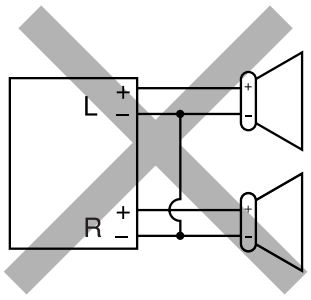
- **Pastikan untuk mentanahkan unit ini ke casis mobil kembali setelah pemasangan.**

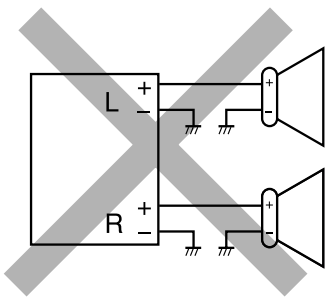
Catatan:

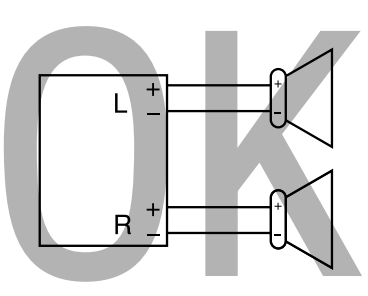
- *Ganti sekring dengan voltase yang sudah ditetapkan. Jika sekring sering meledak, konsultasikan pada penyalur audio mobil JVC anda.*
- *Disarankan untuk menghubungkan speaker-speaker dengan maksimum power lebih dari 50 W (keduanya di belakang dan di depan, dengan sebuah impedansi* **4 Ω sampai 8 Ω***). Jika maksimum power kurang dari 50 W, ganti pengaturan "AMP GAIN" ("PENAMBAH PENGUAT") untuk mencegah speaker-speaker dari kerusakan (lihat halaman 13 dari BUKU PETUNJUK).*
- *Untuk mencegah hubungan pendek, tutup ujung-ujung terminal-terminal TIDAK DIGUNAKAN dengan pita isolasi.*
- *Pendingin menjadi sangat panas setelah digunakan. Hati-hati untuk tidak menyentuhnya ketika memindahkan unit ini.*

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.







TINDAKAN-TINDAKAN PENCEGAHAN pada suplai power dan sambungan-sambungan speaker:

- **JANGAN sambungkan ujung-ujung speaker dari kabel power ke baterai mobil; sebaliknya, unit tersebut akan secara serius rusak.**
- *SEBELUM menyambung ujung-ujung speaker dari kabel power ke speaker-speaker, cek perkabelan speaker dalam mobil anda.*

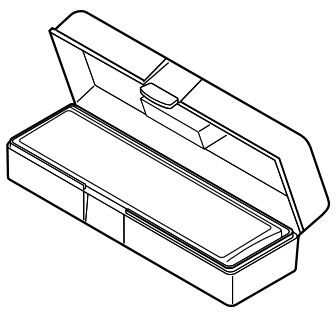
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

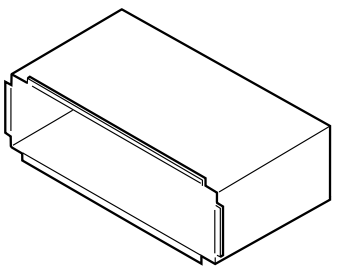
Daftar bagian-bagian untuk pemasangan dan penyambungan

Bagian-bagian berikut disediakan untuk unit ini. Jika ada bagian yang hilang, segera hubungi dealer audio mobil JVC anda.

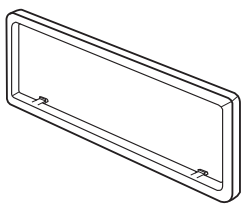
Ⓐ / Ⓑ
Hard case/Control panel
Kotak keras/Panel kontrol



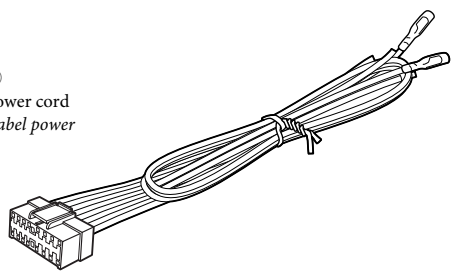
Ⓒ
Sleeve
Selongsong



Ⓓ
Trim plate
Plat rapi



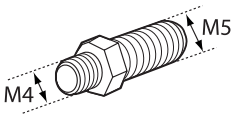
Ⓔ
Power cord
Kabel power



Ⓕ
Washer (ø5)
Perapat sambungan (ø5)

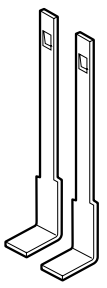
Ⓖ
Lock nut (M5)
Mur kunci (M5)

Ⓗ
Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
Baut bingkai (M4 × 5 mm; M5 × 12.5 mm)

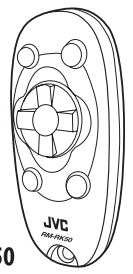


Ⓘ
Rubber cushion
Bantalan karet

Ⓙ
Handles
Pegangan-pegangan



Ⓚ
Remote controller
Pengontrol jauh



RM-RK50

Ⓛ
Battery
Baterai

CR2025

INSTALLATION (IN-DASH MOUNTING)

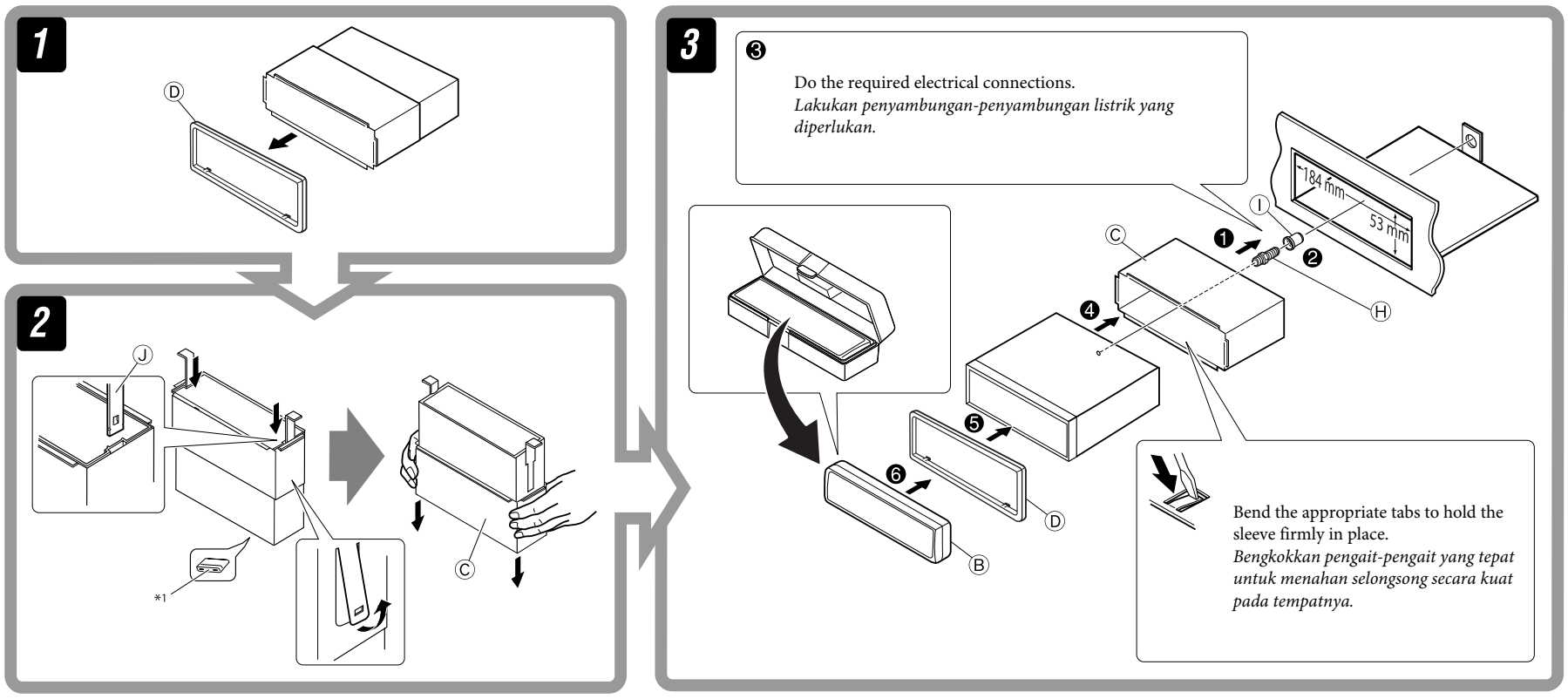
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

PEMASANGAN (BINGKAI-DALAM DASH)

Ilustrasi berikut menunjukkan sebuah tipe pemasangan. Jika anda mempunyai suatu pertanyaan atau informasi yang diperlukan mengenai alat-alat pemasangan, konsultasikan pada penyalur audio mobil JVC atau sebuah perusahaan yang mensuplai alat-alat.

- *Jika anda tidak yakin bagaimana memasang unit ini dengan benar, biarkan dipasang dengan teknisi yang berkualitas.*

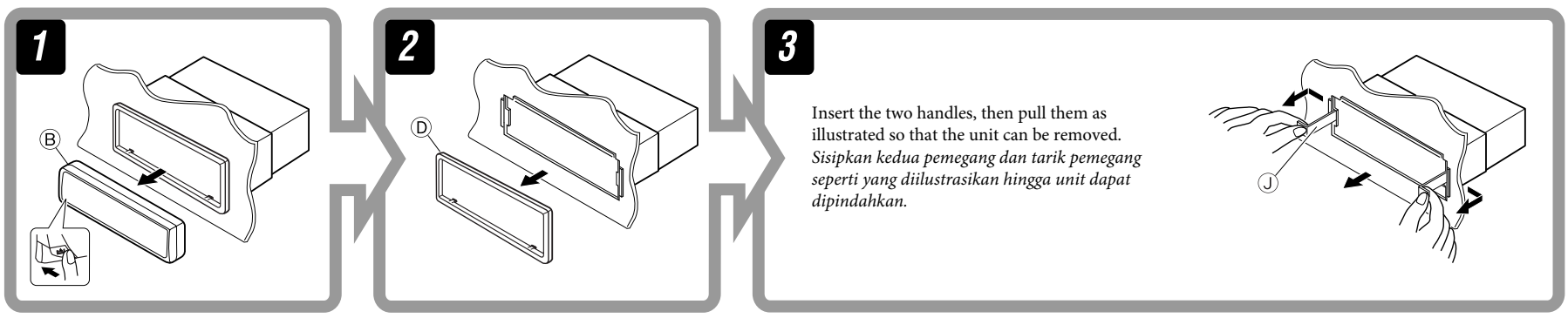


Removing the unit

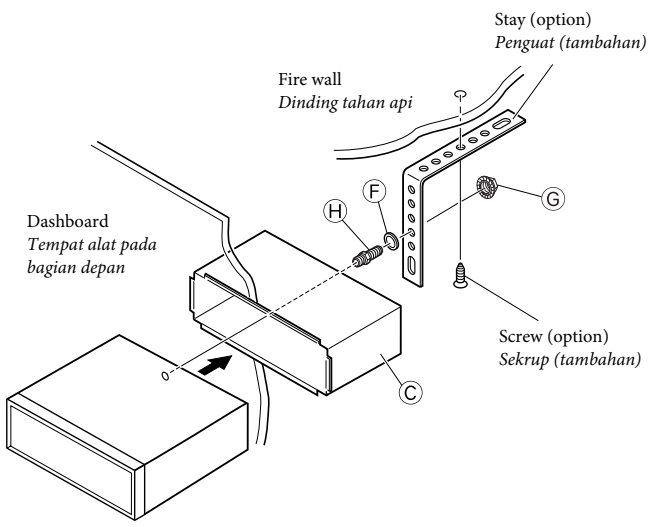
Before removing the unit, release the rear section.

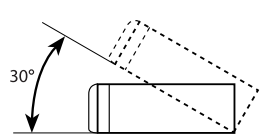
Memindahkan unit

Sebelum memindahkan unit, lepaskan seksi belakang.


1
B
2
D
3
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Sisipkan kedua pemegang dan tarik pemegang seperti yang diilustrasikan hingga unit dapat dipindahkan.
J

When using the optional stay / Ketika menggunakan penguat tambahan

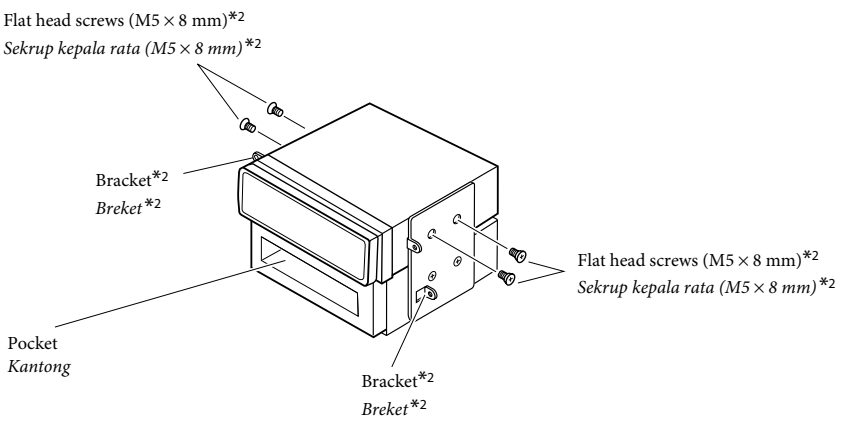




Install the unit at an angle of less than 30°.
Pasang penerima pada suatu sudut kurang dari 30°.

When installing the unit without using the sleeve / Ketika memasang unit tanpa menggunakan selongsong

In a Toyota car for example, first remove the car radio and install the unit in its place.
Dalam sebuah kereta Toyota misalnya, pertama pindahkan radio mobil dan pasang unit tersebut ke dalam tempatnya.



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Catatan : *Ketika memasang alat penerima pada breket bingkai, pastikan untuk menggunakan sekrup-sekrup panjang–8 mm. Jika sekrup yang lebih panjang digunakan, maka dapat merusak unit.*

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 *Ketika anda memberdirikan unit, hati-hati untuk tidak merusak sekring di belakang.*
*2 *Tidak disediakan untuk unit ini.*

ENGLISH

ELECTRICAL CONNECTIONS

INDONESIA

SAMBUNGAN-SAMBUNGAN LISTRIK

A Typical connections / Ciri khas sambungan-sambungan

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord in the order specified in the illustration below.

2 Connect the antenna cord.

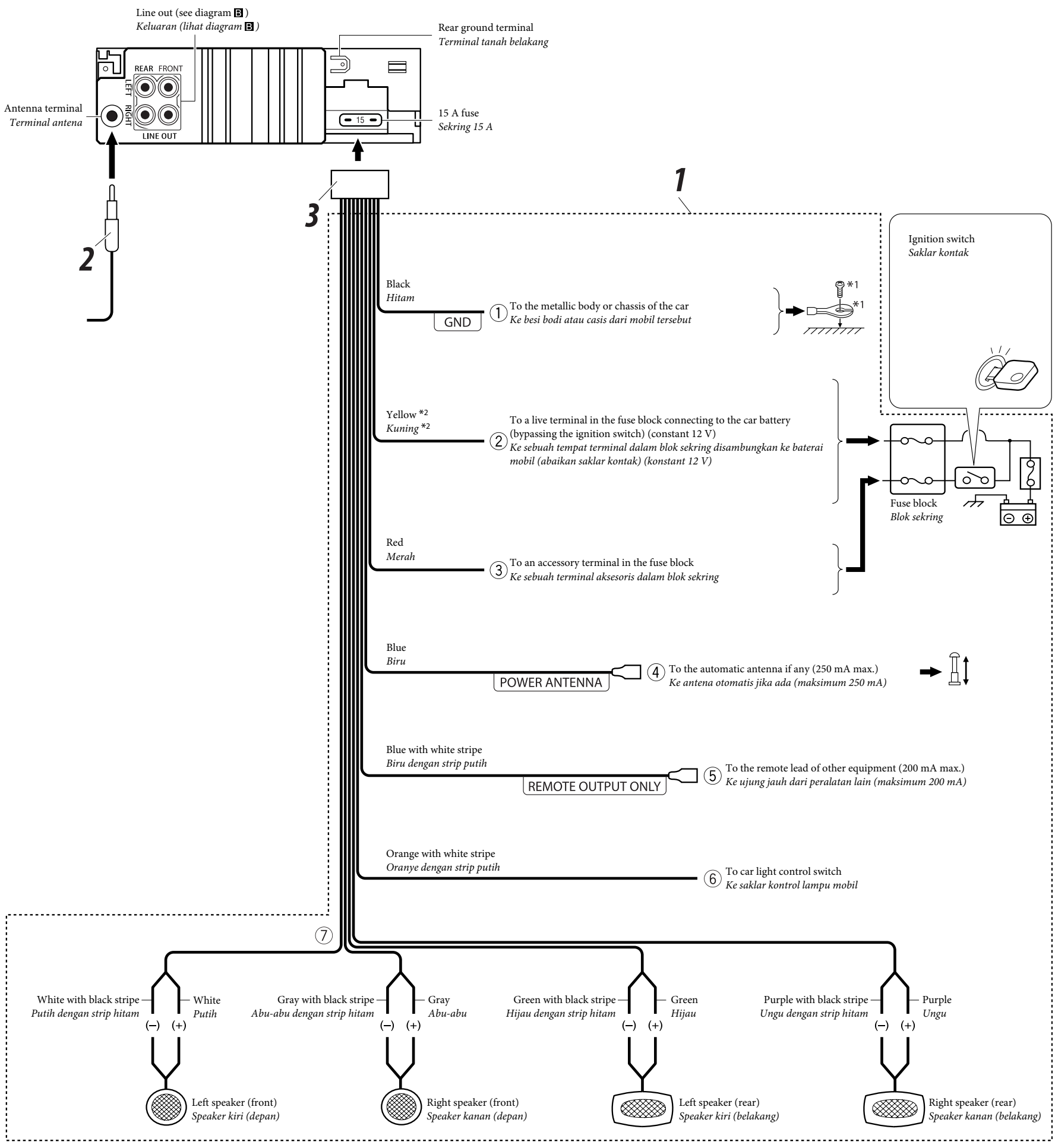
3 Finally connect the wiring harness to the unit.

Sebelum penyambungan: *Cek perkabelan dalam mobil dengan hati-hati. Penyambungan yang tidak benar mungkin menyebabkan kerusakan serius pada unit.*
Ujung dari kabel power dan beberapa konektor dari bodi mobil mungkin berbeda dalam warna.

1 *Sambungkan ujung berwarna dari kabel power dalam urutan spesifikasi pada ilustrasi di bawah.*

2 *Sambungkan kabel antena.*

3 *Akhirnya sambungkan dudukan kabel ke unit.*



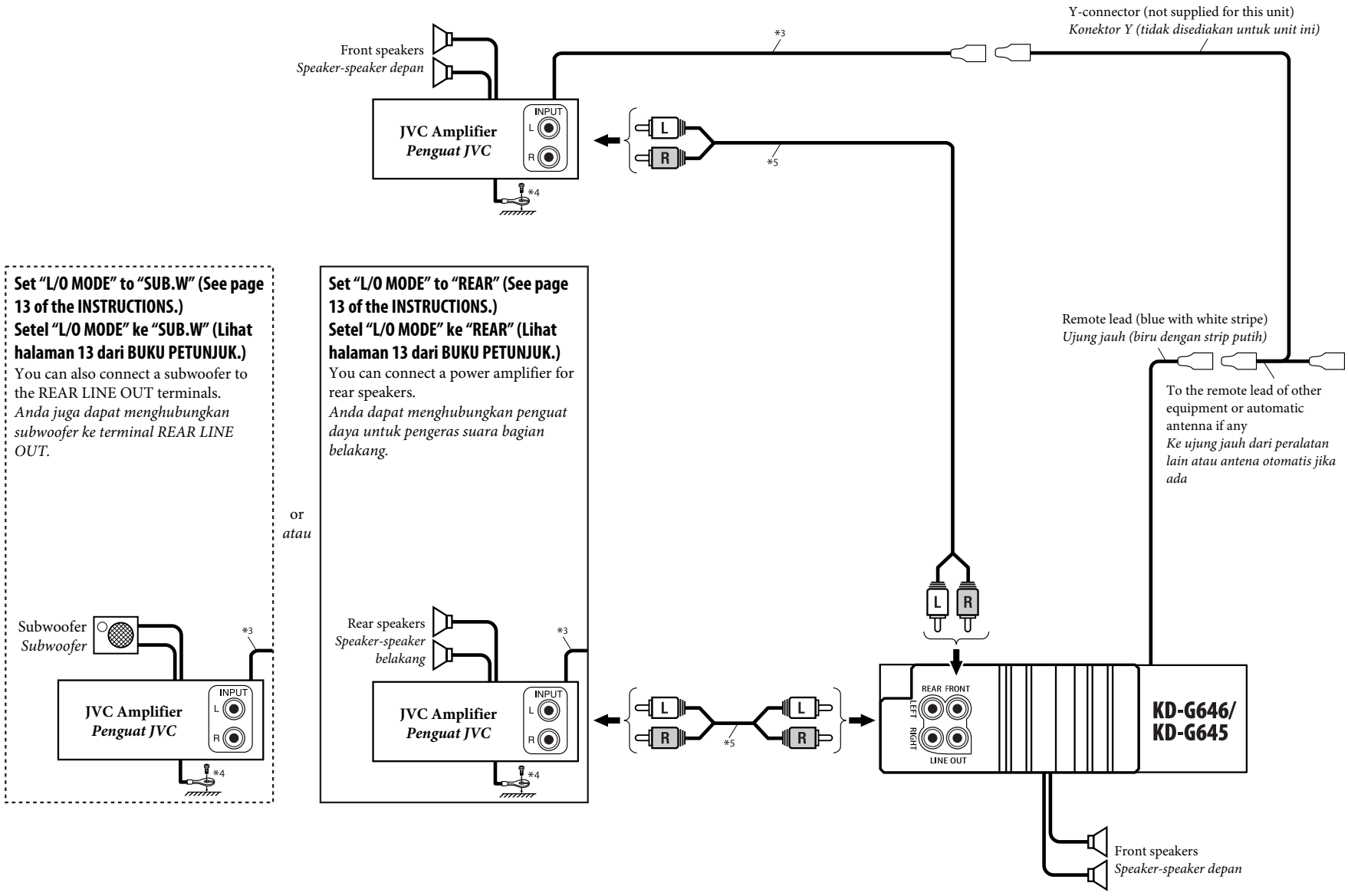
*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 *Tidak disediakan untuk unit ini.*
*2 *Sebelum pengecekan pengoperasian dari unit ini sebelum pemasangan, ujung ini harus sudah dihubungkan, selain itu power tidak dapat dihidupkan.*

B Connecting the external amplifiers and/or subwoofer / Penyambungan penguat-penguat eksternal dan/atau subwoofer

You can connect amplifiers to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Anda dapat menyambungkan penguat-penguat untuk meningkatkan sistem stereo mobil anda.
- *Sambungkan ujung jauh (biru dengan strip putih) ke ujung jauh dari peralatan lain sehingga dapat dikontrol melalui unit ini.*
- **Putuskan sambungan speaker-speaker dari alat penerima ini, sambungkan ini ke penguat. Biarkan ujung speaker dari unit ini tidak digunakan.**


Front speakers
Speaker-speaker depan
JVC Amplifier
Penguat JVC
INPUT
L
R
*3
*4
*5
Y-connector (not supplied for this unit)
Konektor Y (tidak disediakan untuk unit ini)
Remote lead (blue with white stripe)
Ujung jauh (biru dengan strip putih)
To the remote lead of other equipment or automatic antenna if any
Ke ujung jauh dari peralatan lain atau antena otomatis jika ada
Set "L/O MODE" to "SUB.W" (See page 13 of the INSTRUCTIONS.)
Setel "L/O MODE" ke "SUB.W" (Lihat halaman 13 dari BUKU PETUNJUK.)
You can also connect a subwoofer to the REAR LINE OUT terminals.
Anda juga dapat menghubungkan subwoofer ke terminal REAR LINE OUT.
Subwoofer
Subwoofer
or
atau
Set "L/O MODE" to "REAR" (See page 13 of the INSTRUCTIONS.)
Setel "L/O MODE" ke "REAR" (Lihat halaman 13 dari BUKU PETUNJUK.)
You can connect a power amplifier for rear speakers.
Anda dapat menghubungkan penguat daya untuk pengeras suara bagian belakang.
Rear speakers
Speaker-speaker belakang
REAR FRONT
LEFT
RIGHT
LINE OUT
KD-G646/
KD-G645
Front speakers
Speaker-speaker depan

*3 Remote lead
*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Signal cord (not supplied for this unit)

*3 *Ujung jauh*
*4 *Pasangkan dengan kuat kabel tanah ke bodi besi atau ke casis dari mobil—pada tempat yang tidak dilapisi cat (jika dilapisi cat, hilangkan cat sebelum memasang kabel). Kegagalan melakukan ini mungkin menyebabkan kerusakan pada unit tersebut.*
*5 *Kabel sinyal (tidak disediakan untuk unit ini)*

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?

- **Power cannot be turned on.**
* Is the yellow lead connected?

- **No sound from the speakers.**
* Is the speaker output lead short-circuited?

- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**
* Have you reset your unit?

PEMECAHAN MASALAH

- **Sekring meledak.**
* *Apakah ujung-ujung merah dan hitam tersambung dengan benar?*

- **Power tidak dapat dihidupkan.**
* *Apakah ujung kuning sudah tersambung?*

- **Tidak ada suara dari speaker.**
* *Apakah ujung keluaran speaker terhubung pendek?*

- **Suara terdistorsi.**
* *Apakah ujung keluaran speaker sudah ditanahkan?*
* *Apakah terminal-terminal "–" dari speaker-speaker L dan R sudah ditanahkan secara umum?*

- **Berisik yang mengganggu suara-suara.**
* *Apakah terminal tanahan belakang tersambung ke casis mobil menggunakan kabel-kabel terpendek dan tertebal?*

- **Unit menjadi panas.**
* *Apakah ujung keluaran speaker sudah ditanahkan?*
* *Apakah terminal-terminal "–" dari speaker-speaker L dan R sudah ditanahkan secara umum?*

- **Unit ini tidak bekerja secara keseluruhan.**
* *Apakah anda sudah reset (memasang kembali) unit anda?*

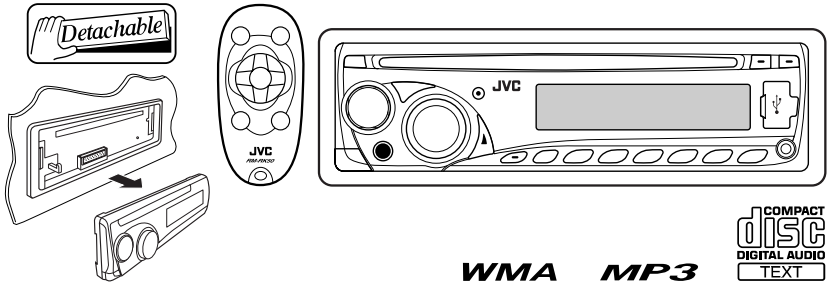
JVC

ENGLISH

中文

CD RECEIVER KD-G646/KD-G645

CD 收音組合機 KD-G646/KD-G645



For canceling the display demonstration, see page 6.
取消屏幕演示功能，參閱第 6 頁。

For installation and connections, refer to the separate manual.
有關安裝和連接方法，分別參閱操作手冊。

INSTRUCTIONS
使用說明書

GET0502-005A
[UT]

ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学機器で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

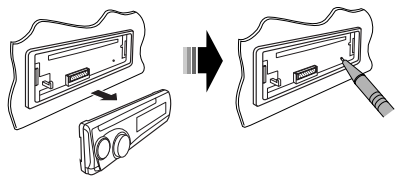
Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

How to reset your unit



- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

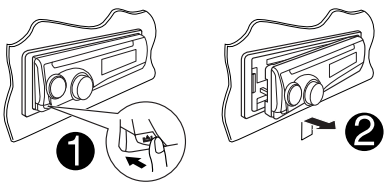
How to use the M MODE button

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons will work as different function buttons.

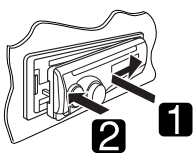
Ex.: When number button 2 works as MO (monaural) button.

To use these buttons for their original functions again after pressing M MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared, or press M MODE again.

Detaching the control panel



Attaching the control panel



The control panel illustrations used for explanation in this manual is of KD-G645.

CONTENTS

Control panel —KD-G646/KD-G645 4
Remote controller — RM-RK50..... 5
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Playing a disc in the unit 8
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Maintenance 15
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For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

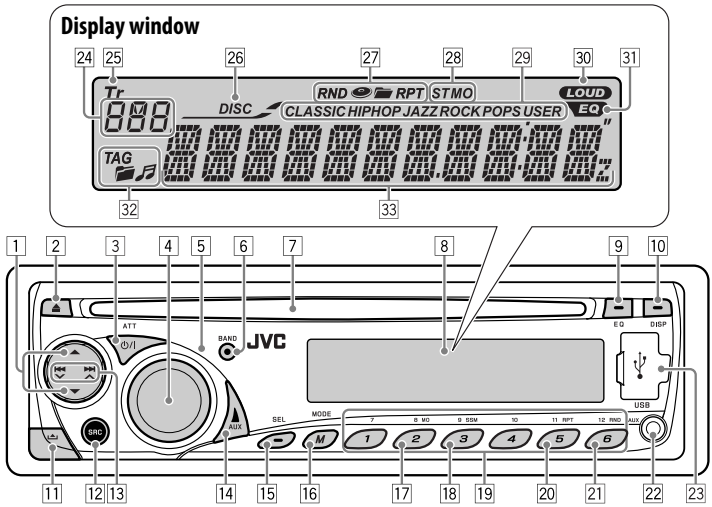
Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

ENGLISH

Control panel — KD-G646/KD-G645

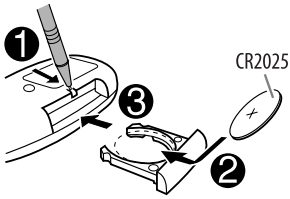
Parts identification



1. ▲ (up) / ▼ (down) buttons
2. ⏏ (eject) button
3. ⏻/I ATT (standby/on attenuator) button
4. Control dial
5. Remote sensor
   DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).
6. BAND button
7. Loading slot
8. Display window
9. EQ (equalizer) button
10. DISP (display) button
11. ⏏ (control panel release) button
12. SRC (source) button
13. ⏮ ∨/⏭ ∧ buttons
14. AUX (auxiliary) button
15. SEL (select) button
16. M MODE button
17. MO (monaural) button
18. SSM (Strong-station Sequential Memory) button
19. Number buttons
20. RPT (repeat) button
21. RND (random) button
22. AUX (auxiliary) input jack
23. USB (Universal Serial Bus) input jack
24. Source display / Track number / Folder number / Time countdown indicator
25. Tr (track) indicator
26. DISC indicator
27. Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat)
28. Tuner reception indicators—ST (stereo), MO (monaural)
29. Sound mode (iEQ: intelligent equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
30. LOUD (loudness) indicator
31. EQ (equalizer) indicator
32. Disc information indicators— TAG (Tag information), (folder), (track/file)
33. Main display

Remote controller — RM-RK50

Installing the lithium coin battery (CR2025)

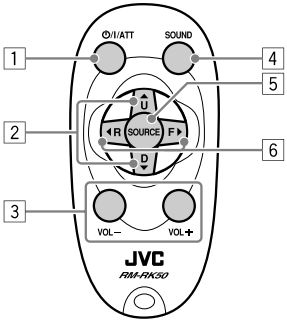


Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.

Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Do not leave the remote controller in a place (such as the dashboard) exposed to direct sunlight for a long time; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid the risk of accidents.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
  - Do not leave the battery with other metallic materials.
  - Do not poke the battery with tweezers or similar tools.
  - Wrap the battery with tape and insulate when throwing away or saving it.

Main elements and features



1 ⏻/I/ATT (standby/on/attenuator) button
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲ U (up) / D (down) ▼ buttons
- Changes the FM/AM bands with ▲ U.
- Changes the preset stations with D ▼.
- Changes the folder of the MP3/WMA.

3 VOL – / VOL + buttons
- Adjusts the volume level.

4 SOUND button
- Selects the sound mode (iEQ: intelligent equalizer).

5 SOURCE button
- Selects the source.

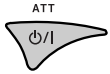
6 ◄ R (reverse) / F (forward) ► buttons
- Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the track if pressed briefly.

ENGLISH

Getting started

Basic operations

1 Turn on the power.

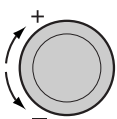


2

* *You cannot select these sources if they are not ready or not connected.*

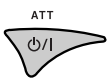
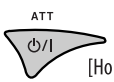
3 For FM/AM tuner

4 Adjust the volume.



Volume level appears.

5 Adjust the sound as you want. (See pages 11 and 12.)

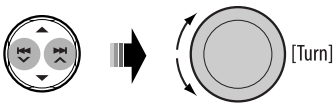
To drop the volume in a moment (ATT) To restore the sound, press the button again.	
To turn off the power	

Basic settings

- See also "General settings — PSM" on pages 12 and 13.

1

2



1 **Canceling the display demonstrations**
Select "DEMO," then "DEMO OFF."

2 **Setting the clock**
Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute.

3 Finish the procedure.

To check the current clock time while the power is turned off

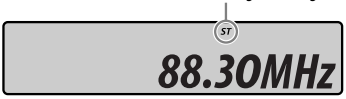
Clock time is shown on the display for about 5 seconds. See also page 13.

Radio operations

❶ SRC → FM1/FM2/FM3/AM → CD → USB → AUX IN

❷ BAND → FM1 → FM2 → FM3 → AM

Lights up when receiving an FM stereo broadcast with sufficient signal strength.



❸ **Start searching for a station.**

When a station is received, searching stops.
To stop searching, press the same button again.

To tune in to a station manually

In step ❸ above...

1 [Hold]

2 **Select a desired station frequency.**

When an FM stereo broadcast is hard to receive

MODE (M) → 8 MO (2)

Lights up when monaural mode is activated.

Reception improves, but the stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

Storing stations in memory

You can preset six stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

1 Select the FM band (FM1 – FM3) you want to store into.

BAND → FM1 → FM2 → FM3 → AM

2 MODE (M)

3 9 SSM (3) [Hold]

"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

Continued on the next page

ENGLISH

Manual presetting

Ex.: Storing the FM station of 92.50MHz into preset number 4 of the FM1 band.

1 BAND → FM1 → FM2 → FM3 → AM

2 → 92.50MHz

3 10 4 [Hold] → P4

Preset number flashes for a while.

Listening to a preset station

1 BAND → FM1 → FM2 → FM3 → AM

2 Select the preset station (1 – 6) you want.

or

To check the other information while listening to an FM or AM station

DISP

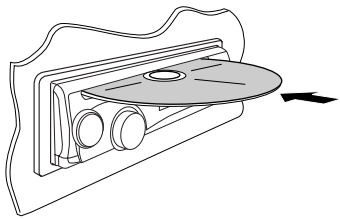
Frequency → **Clock** → **Station name*** → (back to the beginning)

** If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 14.*

Disc / USB device operations

: For built-in CD player operations.
: For external USB device operations.

Playing a disc in the unit



All tracks will be played repeatedly until you change the source or eject the disc.

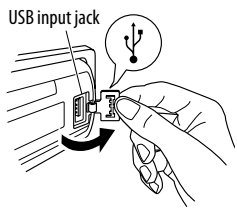
To stop play and eject the disc

- Press SRC to listen to another playback source.

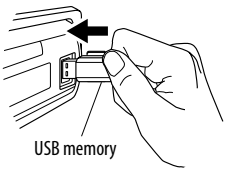
Playing from a USB device

This unit can play MP3/WMA tracks stored in a USB device (except HDD).
All tracks in the USB device will be played repeatedly until you change the source.

1 USB input jack



❷



If a USB device has been attached...

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To detach the USB device, straightly pull it out from the unit.

- Removing the USB device will also stop playback. Then, press SRC to listen to another playback source.

Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out or attach the USB device repeatedly while "READING" appears on the display.
- Do not start a car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of the USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input jack of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damage to the USB device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 17 and 18.

To fast-forward or reverse the track

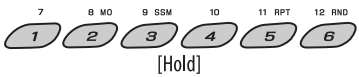
To go to the next or previous track

To go to the next or previous folder (for MP3/WMA)

To locate a particular track (for CD) or folder (for MP3/WMA) directly

To select a number from 01 – 06:

To select a number from 07 – 12:



- To use direct folder access on MP3/WMA, it is required that folders are assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To select a particular track in a folder (for MP3/WMA):

Other main functions

Skipping tracks quickly during play

- For MP3/WMA, you can skip tracks within the same folder

Ex.: To select track 32 while playing tracks whose number is a single digit (1 to 9)

1

2

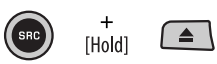
Each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected and vice versa.

3

Prohibiting disc ejection

You can lock a disc in the loading slot.



To cancel the prohibition, repeat the same procedure.

Changing the display information

While playing an audio CD or CD Text

A → Disc title/performer*1 **→ Track title***1 [♪] **→ B →** (back to the beginning)

While playing an MP3/WMA disc or USB device

- **When "TAG DISPLAY" is set to "TAG ON" (see page 13)**

A → Album name/performer (folder name*2**)** [TAG 📁] **→ Track title (file name***2**)** [TAG ♪] **→ B →** (back to the beginning)

- **When "TAG DISPLAY" is set to "TAG OFF"**

A → Folder name [📁] **→ File name** [♪] **→ B →** (back to the beginning)

A : Clock with the current track number
B : The elapsed playing time with the current track number
[ ] : Corresponding indicator lights up on the display

*1 *If the current disc is an audio CD, "NO NAME" appears.*
*2 *If an MP3/WMA file does not have Tag information, folder name and file name appear. In this case, the TAG indicator will not light up.*

Selecting the playback modes

You can use only one of the following playback modes at a time.

1 MODE (M)

2 Select your desired playback mode.

■ **Repeat play** — 11 RPT (5)

Mode	Plays repeatedly
TRACK RPT	: The current track. [*RPT*]
FOLDER RPT *	: All tracks of the current folder. [*RPT*]
RPT OFF	: Cancels.

■ **Random play** — 12 RND (6)

Mode	Plays at random
FOLDER RND *	: All tracks of the current folder, then the tracks of the next folder and so on. [*RND*]
ALL RND	: All tracks of the current disc or USB device. [*RND*]
RND OFF	: Cancels.

** Only while playing a media (MP3/WMA/USB).*

[ ] : Corresponding indicator lights up on the display

Sound adjustments

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

EQ → **USER** → **ROCK** → **CLASSIC** → **JAZZ** → **HIP HOP** → **POPS** →

Indication (For) \ Preset values	BAS	MID	TRE	LOUD
USER (Flat sound)	00	00	00	OFF
ROCK (Rock or disco music)	+03	00	+02	OFF
CLASSIC (Classical music)	+01	00	+03	OFF
POPS (Light music)	+02	+01	+02	OFF
HIP HOP (Funk or rap music)	+04	–02	+01	OFF
JAZZ (Jazz music)	+03	00	+03	OFF

BAS: Bass MID: Mid-range TRE: Treble LOUD: Loudness

Adjusting the sound

You can adjust the sound characteristics to your preference.

1 SEL

BASS → **MIDDLE** → **TREBLE** → **FADER** → **BALANCE** → **VOLUME** → **VOL ADJ** → **SUB.W** * → **LOUD** →

** Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

2 [Turn]

Continued on the next page

Indication, [Range]

BASS *1, [–06 to +06]
Adjust the bass.

MIDDLE *1 (mid-range), [–06 to +06]
Adjust the mid-range frequencies sound level.

TREBLE *1, [–06 to +06]
Adjust the treble.

FADER *2, [R06 to F06]
Adjust the front and rear speaker output balance.

BALANCE *3, [L06 to R06]
Adjust the left and right speaker output balance.

LOUD *4 (loudness), [LOUD ON or LOUD OFF]
Boost low and high frequencies to produce a well-balanced sound at a low volume level.

SUB.W *5, [00 to 08, initial: 04]
Adjust the subwoofer output level.

VOL ADJ (volume adjust), [–05 to +05, initial: 00]
Adjust the volume level of each source (except FM), in relation to the FM volume level. The volume level will automatically increase or decrease when you change the source.

- Before making an adjustment, select the source you want to adjust.

VOLUME, [00 to 50 or 00 to 30] *6
Adjust the volume.

*1 *When you adjust the bass, mid-range, or treble, the adjustment you have made is stored for the currently selected sound mode (iEQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *This adjustment will not affect the subwoofer output.*

*4 *The adjustment made (LOUD ON/LOUD OFF) will be applied to all sound modes.*

*5 *Displayed only when "L/O MODE" is set to "SUB.W" (see page 13).*

*6 *Depending on the amplifier gain control setting. (See page 13 for details.)*

General settings — PSM

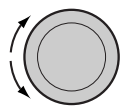
You can change PSM (Preferred Setting Mode) items listed in the table on page 13.

1

[Hold]

2 Select a PSM item.

3 Adjust the PSM item selected.


[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__: Initial)	Selectable settings, [reference page]
DEMO Display demonstration	• **DEMO ON** • **DEMO OFF**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. : Cancels.
CLOCK DISP *1 Clock display	• **CLOCK ON** • **CLOCK OFF**	: The clock time is shown on the display at all times when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK HOUR Hour adjustment	**1 – 12**	[Initial: 1 (1:00)], [6]
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (1:00)], [6]
DIMMER Dimmer	• **AUTO** • **ON** • **OFF**	: Dims the display and button illumination when you turn on the headlights. : Activates dimmer. : Cancels.
SCROLL *2 Scroll	• **ONCE** • **AUTO** • **OFF**	: Scrolls the displayed information once. : Repeats scrolling (at 5-second intervals). : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
L/O MODE Line output mode	• **REAR** • **SUB.W**	: Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier). : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier).
SUB.W FREQ*3 Subwoofer cutoff frequency	• **LOW** • **MID** • **HIGH**	: Frequencies lower than 90 Hz are sent to the subwoofer. : Frequencies lower than 135 Hz are sent to the subwoofer. : Frequencies lower than 180 Hz are sent to the subwoofer.
TAG DISPLAY Tag display	• **TAG ON** • **TAG OFF**	: Shows the Tag information while playing MP3/WMA tracks, [10]. : Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER** • **HIGH POWER**	: VOLUME 00 – VOLUME 30 (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.) : VOLUME 00 – VOLUME 50

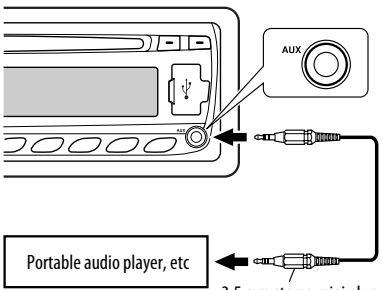
*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" that you save the car's battery.*

*2 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

*3 *Displayed only when "L/O MODE" is set to "SUB.W."*

Other external component operations

You can connect an external component to the AUX (auxiliary) input jack on the control panel.

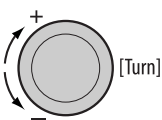


1

- You can also select "AUX IN" as the playback source by pressing the SRC (source) button.

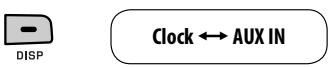
2 Turn on the connected component and start playing the source.

3 Adjust the volume.



4 Adjust the sound as you want. (See pages 11 and 12.)

To check the other information while listening to an external component

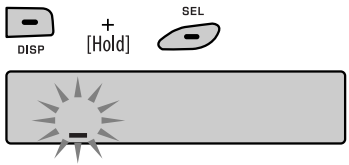


Title assignment

You can assign titles to 30 station frequencies (FM and AM) and up to 8 characters for each station name.

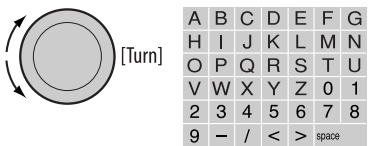
1 Select FM/AM.

2 Show the title entry screen.



3 Assign a title.

1 **Select a character.**



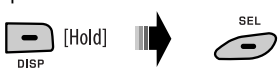
2 **Move to the next (or previous) character position.**

3 **Repeat steps 1 and 2 until you finish entering the title.**

4 Finish the procedure.

To erase the entire title

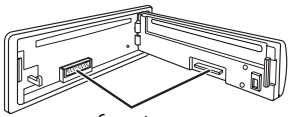
In step **2** above...



Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

Center holder

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)

Warped disc

Sticker and sticker residue

Stick-on label

Unusual shape

ENGLISH

More about this unit

Basic operations

Turning on the power

- By pressing SRC or AUX on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where it had been stopped previously next time you turn on the power.

Tuner operations

Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- When a disc is inserted upside down, "PLEASE" and "EJECT appear alternately on the display. Press ⏏ to eject the disc.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, or for the following reasons:
  - Discs are dirty or scratched.
  - Moisture condensation has occurred on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - The files on the CD-R/CD-RW are written using the "Packet Write" method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
  - Discs with stickers, labels, or protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
  – Bit rate of WMA: 16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo: up to 128 characters
  – Joliet: up to 64 characters
  – Windows long file name: up to 128 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  – MP3 files encoded in MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have data such as WAVE, ATRAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "NO FILE" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
  – Bit rate of MP3: 16 kbps — 320 kbps
  – Sampling frequency of MP3:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
    12 kHz, 11.025 kHz, 8 kHz (for MPEG-2.5)
  – Bit rate of WMA:
    16 kbps — 32 kbps
    (Sampling frequency: 22.05 kHz)
    32 kbps — 320 kbps
    (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
- This unit can play back MP3 files recorded in VBR (variable bit rate).

Continued on the next page

- The maximum number of characters for:
  – Folder names : 25 characters
  – File names : 25 characters
  – MP3 Tag : 128 characters
  – WMA Tag : 64 characters
- This unit can recognize a total of 2 500 files, 255 folders (999 files per folder), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded in an inappropriate format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded in lossless, professional, and voice format.
  – WMA files not based on Windows Media® Audio.

Changing the source

- If you change the source, playback also stops.
  Next time you select the same source again, playback starts from where it has been stopped previously.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

General settings—PSM

- "AUTO" setting for "DIMMER" may not work correctly on some vehicles, particularly on those having a control dial for dimming.
  In this case, change the "DIMMER" setting to any other than "AUTO."
- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Title assignment

- If you try to assign titles to more than 30 station frequencies, "NAMEFULL" appears. Delete unwanted titles before assignment.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 2).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 2).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display. • "PLEASE" and "EJECT" appear alternately on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.

Continued on the next page

	Symptoms	Remedies/Causes
MP3/WMA playback	• Tracks are not played back in the order you have intended.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• The correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders, and empty folders*. • Turn off the power then on again. • Reattach the USB device again. * *Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.*
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	• "NO FILE" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device.	• Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• "READ" and "FAILED" appear alternately on the display.	The total number of tracks could not be accessed properly.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

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Specifications

AUDIO AMPLIFIER SECTION	
Maximum Power Output:	
Front/Rear:	50 W per channel
Continuous Power Output (RMS):	
Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:	4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	
Bass:	±12 dB at 60 Hz
Mid-range:	±12 dB at 1 kHz
Treble:	±12 dB at 10 kHz
Frequency Response:	40 Hz to 20 000 Hz
Signal-to-Noise Ratio:	70 dB
Line-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Output Impedance:	1 kΩ
Subwoofer-Out Level/ Impedance:	2.5 V/20 kΩ load (full scale)
Other Terminal:	AUX (auxiliary) input jack, USB input jack

TUNER SECTION	
Frequency Range:	
FM:	87.5 MHz to 108.0 MHz
AM:	531 kHz to 1 602 kHz
FM Tuner	
Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz):	65 dB
Frequency Response:	40 Hz to 15 000 Hz
Stereo Separation:	30 dB
AM Tuner	
Sensitivity/Selectivity:	20 µV/35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format:	(MPEG1/2 Audio Layer 3)
Max. Bit Rate:	320 kbps
WMA (Windows Media® Audio) Decoding Format:	
Max. Bit Rate:	320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Storage:	Less than 8 GB (1 partition type)
Compatible Device:	Mass storage class (except HDD)
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	500 mA

GENERAL	
Power Requirement:	
Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:	Negative ground
Allowable Operating Temperature:	0°C to +40°C
Dimensions (W × H × D): (approx.)	
Installation Size:	182 mm × 52 mm × 160 mm
Panel Size:	188 mm × 58 mm × 6 mm
Mass:	1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

在操作時遇到麻煩了？

請重置本機

參閱如何重置本機之頁

JVC

EN, CT

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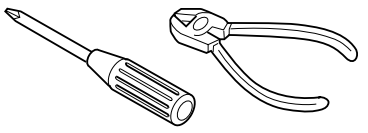
1007DTSMDTJEIN

KD-G646/KD-G645

Installation/Connection Manual
安裝/連接手冊



GET0502-010A
[UT]

1007DTSMDTJEIN
EN, CT
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

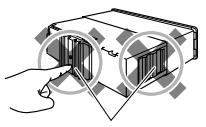
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 13 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / 散熱片

中文

本機僅可使用**直流 12 V 、負極接地的電源系統**。如果您的車輛沒有這一電源系統，則需要一個電壓變換器，可以在 JVC 汽車音響分銷商處買到。

警告

為防止短路，建議在安裝本機之前，拔開電池的負極，並把所有電路都連接好。

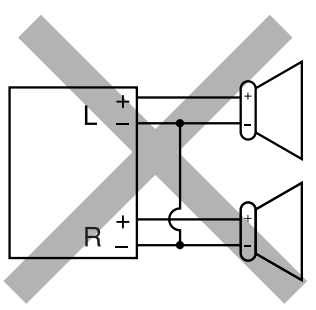
- **安裝完畢後務必將本機的地線重新接至車身。**

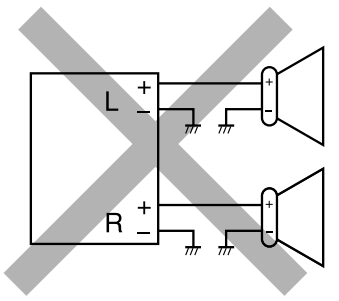
注意:

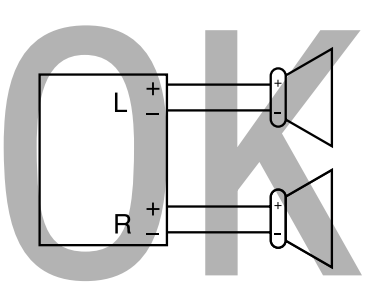
- 把保險絲更換為額定負荷值的保險絲。如果保險絲經常燒壞，請向 JVC 汽車音響分銷商詢問。
- 後置和前置揚聲器的最大輸入功率應大於 50 W，其阻抗為 **4 Ω - 8 Ω**。如果最大功率小於 50 W，請調校"AMP GAIN"設定值，以防止揚聲器損壞。（參閱使用說明書的第 13 頁。）
- 為防止電源短路，請用絕緣帶包住**未使用**電線的端子。
- 本機使用後，散熱片會很熱。因此，在移出本機時，小心不要觸摸散熱片。

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.







電源和揚聲器接線注意事項:

- **切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。**
- 在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路。

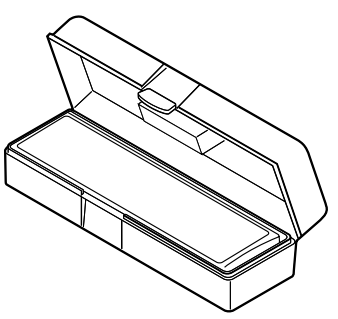
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

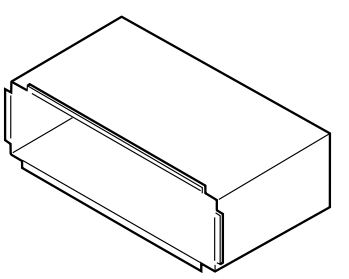
用於安裝和連接的零組件清單

下列零組件隨本機提供。若有任何遺漏，立刻咨詢您的 JVC 汽車音響經銷商。

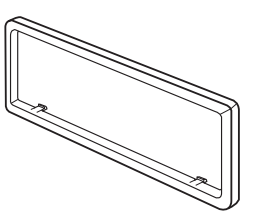
Ⓐ / Ⓑ
Hard case/Control panel
硬盒/控制面板



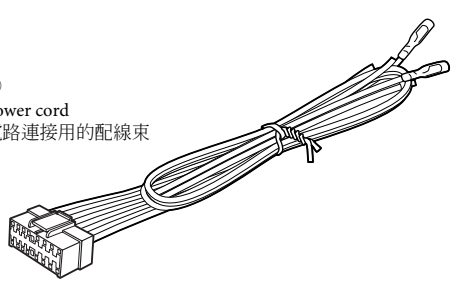
Ⓒ
Sleeve
外套機殼



Ⓓ
Trim plate
裝飾框



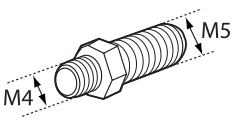
Ⓔ
Power cord
電路連接用的配線束



Ⓕ
Washer (ø5)
墊圈（ø5）

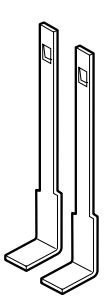
Ⓖ
Lock nut (M5)
鎖定螺母（M5）

Ⓗ
Mounting bolt (M4 × 5 mm, M5 × 12.5 mm)
緊固螺栓（M4 × 5 mm, M5 × 12.5 mm）

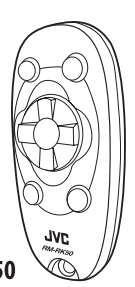


Ⓘ
Rubber cushion
橡膠防震墊

Ⓙ
Handles
板條型把手

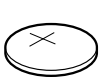


Ⓚ
Remote controller
遙控器



RM-RK50

Ⓛ
Battery
電池



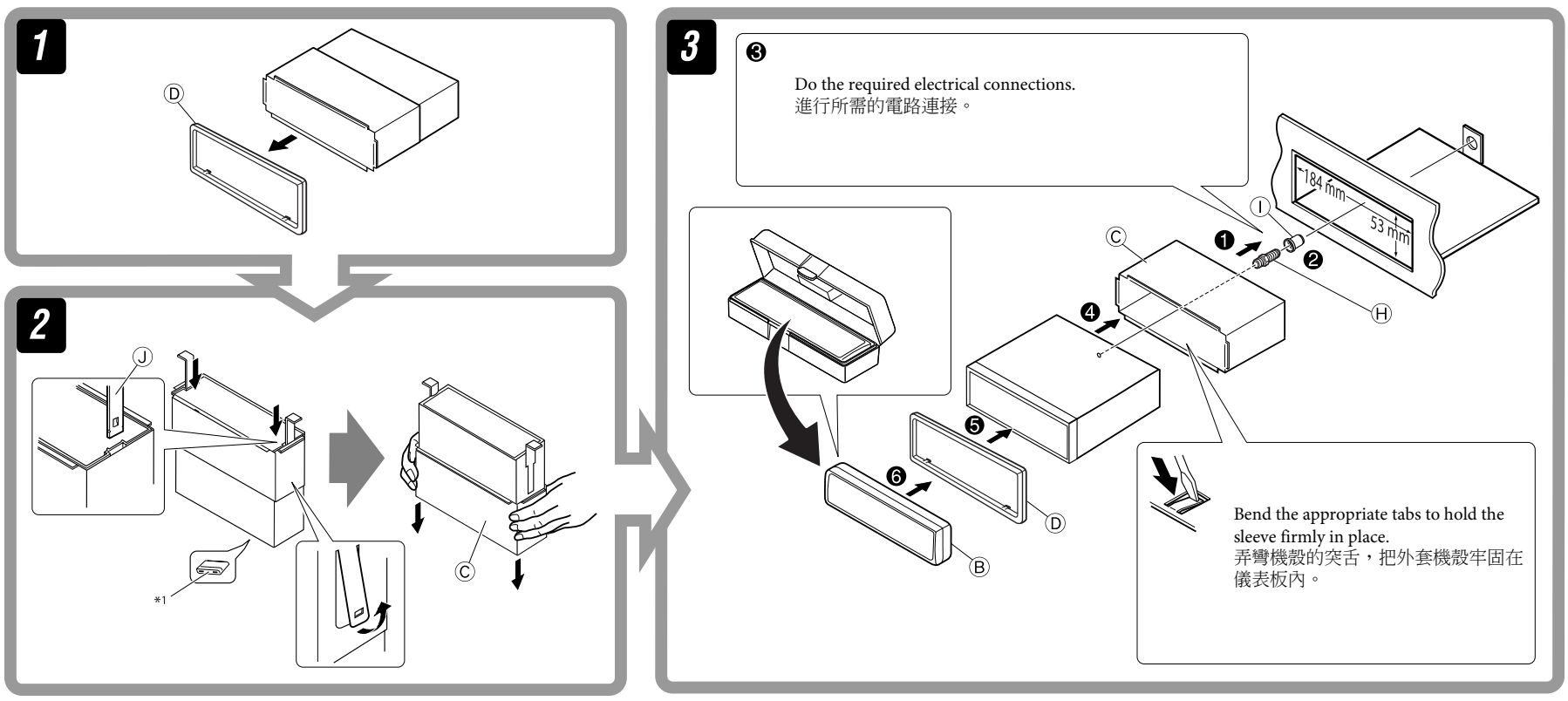
CR2025

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.
• If you are not sure how to install this unit correctly, have it installed by a qualified technician.

安裝（裝設、固定在儀表板內）

下面的圖解表示了典型的安裝程序。如果您有問題，或需要有關配套元件的資料，請向 JVC 汽車音響分銷商或配套元件供應公司詢問。
• 如果您不能確定如何正確地安裝本機，應請合格的技術人員來安裝。

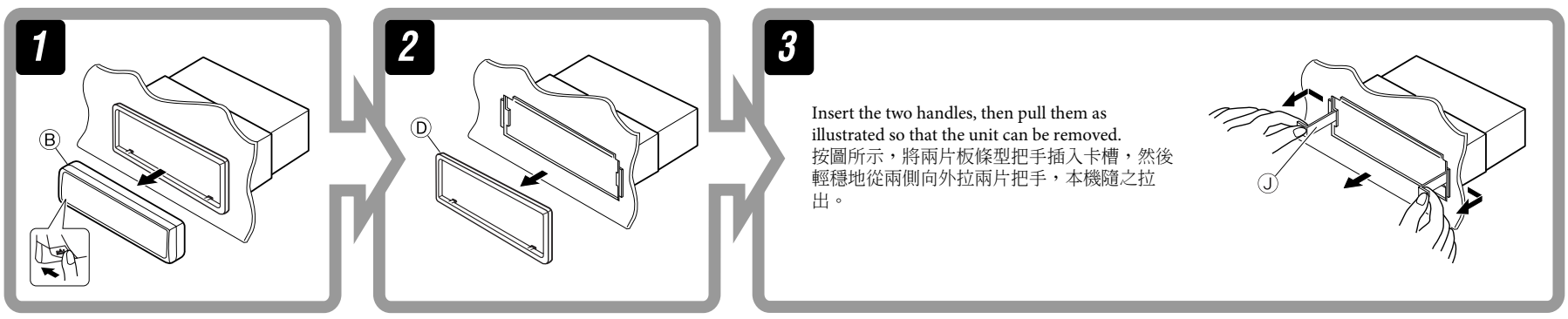


Removing the unit

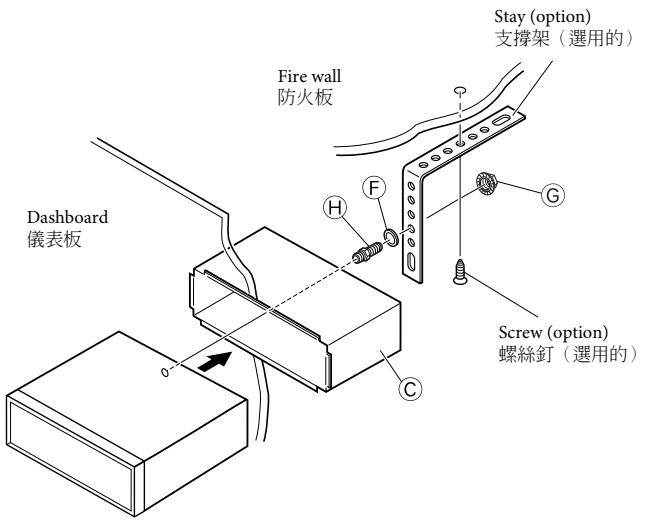
Before removing the unit, release the rear section.

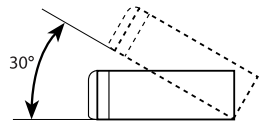
拆卸本機

在拆卸本機前，應將本機後部的固定和連接部分鬆開。



When using the optional stay / 若選用支撐架

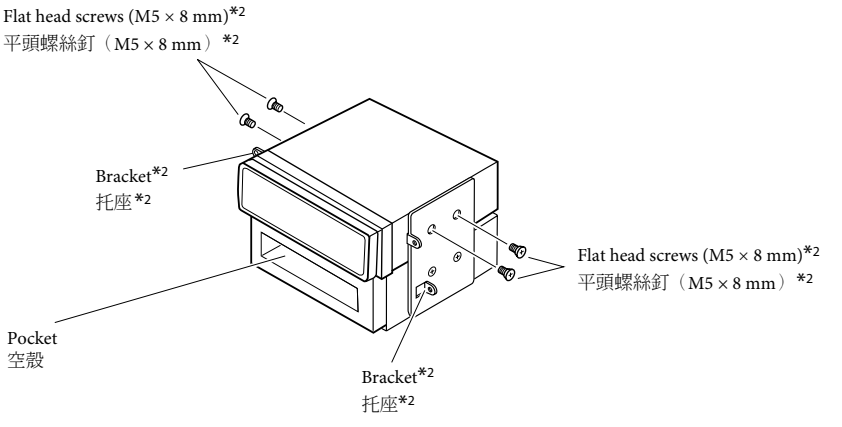




Install the unit at an angle of less than 30°.
將本機安裝在少於 30° 的角度。

When installing the unit without using the sleeve / 若不使用外套機殼安裝本機

In a Toyota car for example, first remove the car radio and install the unit in its place.
以豐田牌（TOYOTA）汽車為例：首先取出汽車收音機，然後將本機裝入其空出的位置。



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

注意 : 把本機安裝在托座上時，務必使用 8 mm 長的螺絲釘。如使用過長的螺絲釘，會損壞本機。

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 您豎起本機時，小心不要損壞底部的保險絲。
*2 不隨本機提供。

ENGLISH

ELECTRICAL CONNECTIONS

A Typical connections / 典型的接線方法

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord in the order specified in the illustration below.

2 Connect the antenna cord.

3 Finally connect the wiring harness to the unit.

中文

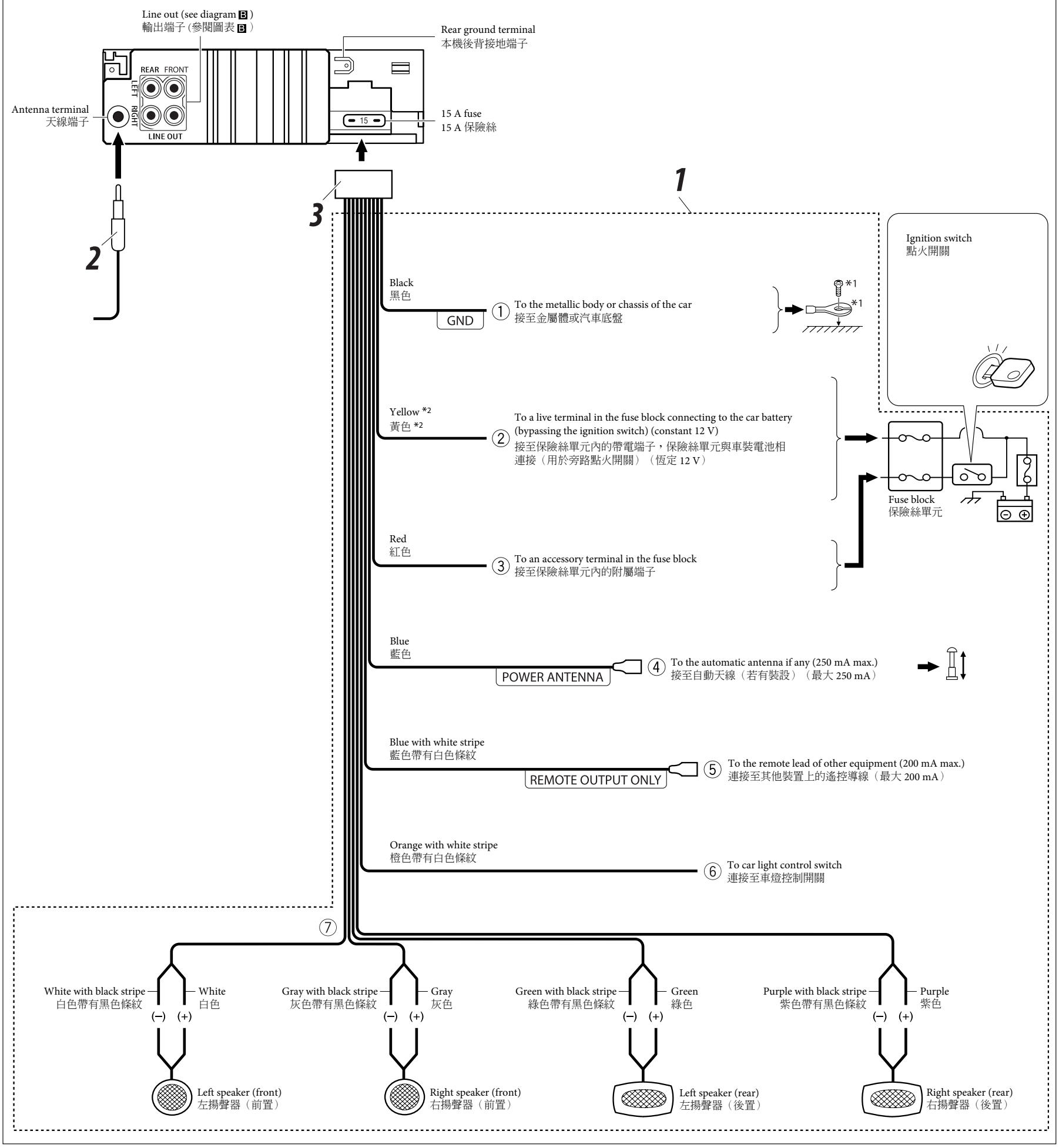
電路連接

接線前：仔細檢查汽車內的線路。不正確的接線會導致本機嚴重損壞。
電源線的引線和車身的連接器引線在顏色上可能有所不同。

1 依照下圖所示之次序連接電源線的顏色導線。

2 將天線的電線連接起來。

3 最後，把配線束的插頭插在本機上。



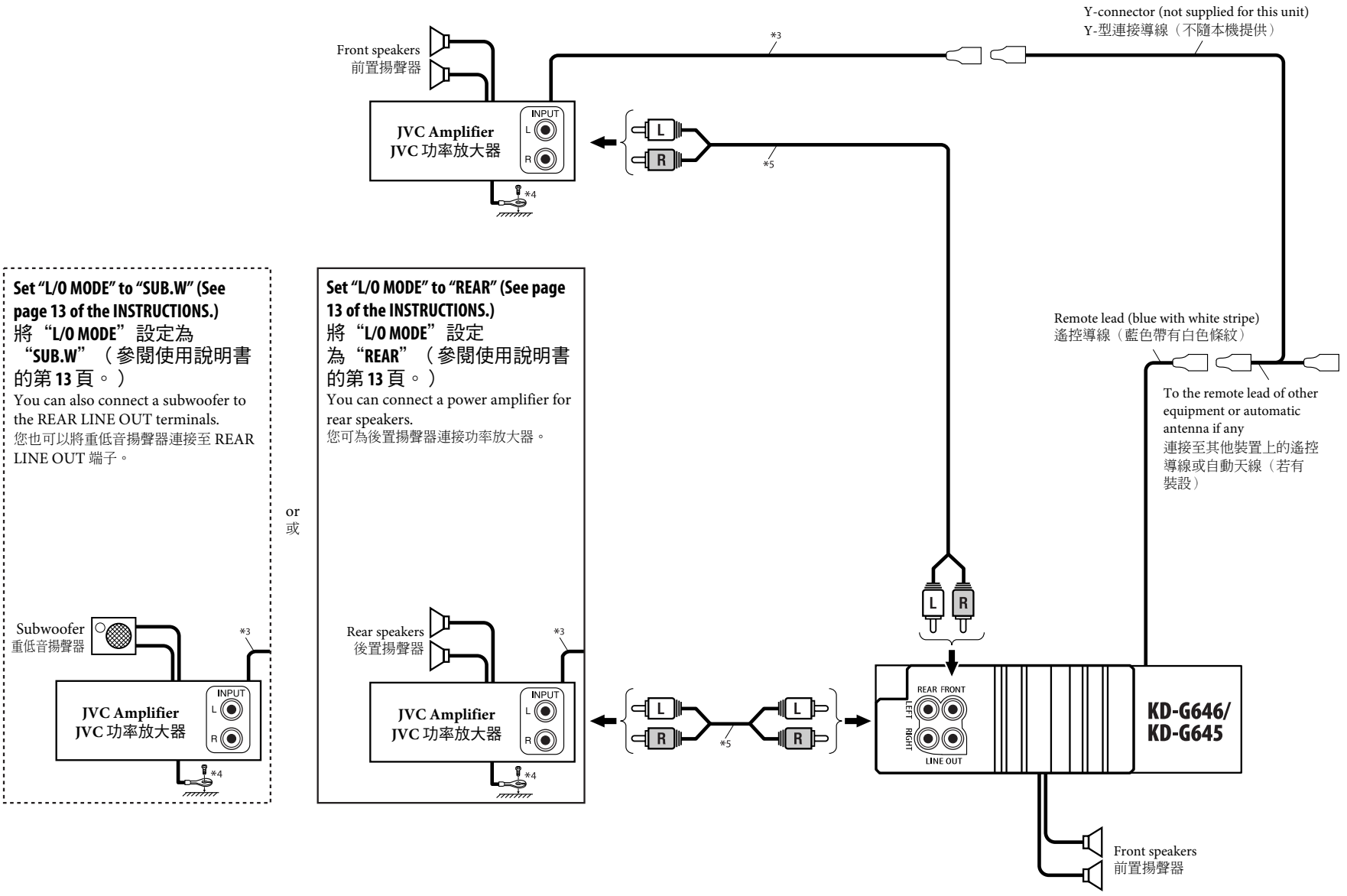
*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 不隨本機提供。
*2 本機未安裝時，進行工作狀況檢查之前，必須把這導線接上，否則不能開啟電源。

B Connecting the external amplifiers and/or subwoofer / 連接至外部功率放大器和 / 或重低音揚聲器

You can connect amplifiers to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

您可以連接功率放大器以提昇尊車的音響系統。
- 將遙控導線（藍色帶有白色條紋）和其他裝置上的遙控導線連接起來，以便可以經由本機進行遙控。
- **將揚聲器和本機拔開，再接上功率放大器。將本機的揚聲器接線放置不用。**



*3 Remote lead
*4 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Signal cord (not supplied for this unit)

*3 遙控導線
*4 將地線與金屬車體或者汽車底盤緊密連接，連接處應該沒有被油漆覆蓋（如果已塗上油漆，在連接電線前，將油漆刮去）。如果不這樣做，可能會損壞本機。
*5 信號電纜（不隨本機提供）

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?

- **Power cannot be turned on.**
* Is the yellow lead connected?

- **No sound from the speakers.**
* Is the speaker output lead short-circuited?

- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

- **This unit does not work at all.**
* Have you reset your unit?

故障排除

- **保險絲燒斷。**
* 檢查紅色導線接頭和黑色導線接頭是否接觸正確?

- **電源不能接通。**
* 檢查黃色導線接頭是否接上?

- **揚聲器沒有聲音。**
* 檢查揚聲器輸出導線接頭是否短路?

- **聲音失真。**
* 檢查揚聲器輸出端子是否接地?
* 檢查揚聲器的左（L）、右（R）端子的負極（–）是否共同接地?

- **噪音干擾音響。**
* 後接地端子與車身是否使用較短和較厚的電線連接?

- **本機發熱。**
* 檢查揚聲器輸出端子是否接地?
* 檢查揚聲器的左（L）、右（R）端子的負極（–）是否共同接地?

- **本機完全不能操作。**
* 您是否已經重置您的機組?